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PROBES AND DECODER OLIGONUCLEOTIDES

This application claims the benefit of U.S.S.N.s 60/227,948 filed August 25, 2000 and 60/228,854, filed August 29, 2001, both of which are expressly incorporated herein by reference.

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FIELD OF THE INVENTION

The present invention is directed to methods and compositions for the use of adapter sequences on arrays in a variety of nucleic acid reactions, including synthesis reactions, amplification reactions, and genotyping reactions.

BACKGROUND OF THE INVENTION

The detection of specific nucleic acids is an important tool for diagnostic medicine and molecular biology research. Gene probe assays currently play roles in identifying infectious organisms such as bacteria and viruses, in probing the expression of normal and mutant genes and identifying mutant genes such as oncogenes, in typing tissue for compatibility preceding tissue transplantation, in matching tissue or blood samples for forensic medicine, and for exploring homology among genes from different species.

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Ideally, a gene probe assay should be sensitive, specific and easily automatable (for a review, see Nickerson, Current Opinion in Biotechnology 4:48-51 (1993)). The requirement for sensitivity (i.e. low detection limits) has been greatly alleviated by the development of the polymerase chain reaction (PCR) and other amplification technologies which allow researchers to amplify exponentially a specific nucleic acid sequence before analysis (for a review, see Abramson et al., Current Opinion in Biotechnology, 4:41-47 (1993)).

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Specificity, in contrast, remains a problem in many currently available gene probe assays. The extent of molecular complementarity between probe and target defines the specificity of the interaction. Variations in the concentrations of probes, of targets and of salts in the hybridization medium, in the reaction temperature, and in the length of the probe may alter or influence the specificity of the

probe/target interaction.

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It may be possible under some circumstances to distinguish targets with perfect complementarity from targets with mismatches, although this is generally very difficult using traditional technology, since small variations in the reaction conditions will alter the hybridization. New experimental techniques for mismatch detection with standard probes include DNA ligation assays where single point mismatches prevent ligation and probe digestion assays in which mismatches create sites for probe cleavage.

Recent focus has been on the analysis of the relationship between genetic variation and phenotype by making use of polymorphic DNA markers. Previous work utilized short tandem repeats (STRs) as polymorphic positional markers; however, recent focus is on the use of single nucleotide polymorphisms (SNPs), which occur at an average frequency of more than 1 per kilobase in human genomic DNA. Some SNPs, particularly those in and around coding sequences, are likely to be the direct cause of therapeutically relevant phenotypic variants and/or disease predisposition. There are a number of well known polymorphisms that cause clinically important phenotypes; for example, the apoE2/3/4 variants are associated with different relative risk of Alzheimer's and other diseases (see Cordor et al., Science 261(1993). Multiplex PCR amplification of SNP loci with subsequent hybridization to oligonucleotide arrays has been shown to be an accurate and reliable method of simultaneously genotyping at least hundreds of SNPs; see Wang et al., Science, 280:1077 (1998); see also Schafer et al., Nature Biotechnology 16:33-39 (1998). The compositions of the present invention may easily be substituted for the arrays of the prior art.

There are a variety of particular techniques that are used to detect sequence, including mutations and SNPs. These include, but are not limited to, ligation based assays, cleavage based assays (mismatch and invasive cleavage such as Invader™), single base extension methods (see WO 92/15712, EP 0 371 437 B1, EP 0317 074 B1; Pastinen et al., Genome Res. 7:606-614 (1997); Syvänen, Clinica Chimica Acta 226:225-236 (1994); and WO 91/13075), and competitive probe analysis (e.g. competitive sequencing by hybridization; see below).

Oligonucleotide ligation amplification ("OLA", which is referred as the ligation chain reaction (LCR) when two-stranded reactions or nested reactions are done) involves the ligation of two smaller probes into a single long probe, using the target sequence as the template. See generally U.S. Patent Nos. 5,185,243, 5,679,524 and 5,573,907; EP 0 320 308 B1; EP 0 336 731 B1; EP 0 439 182 B1; WO 90/01069; WO 89/12696; WO 97/31256 and WO 89/09835, all of which are incorporated by reference.

Invasive cleavage technology is based on structure-specific nucleases that cleave nucleic acids in a site-specific manner. Two probes are used: an "invader" probe and a "signalling" probe, that adjacently hybridize to a target sequence with a non-complementary overlap. The enzyme cleaves at the overlap due to its recognition of the "tail", and releas s the "tail" with a label. This can then be

detected. The Invader™ technology is described in U.S. Patent Nos. 5,846,717; 5,614,402; 5,719,028; 5,541,311; and 5,843,669, all of which are hereby incorporated by reference.

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An additional technique utilizes sequencing by hybridization. For example, sequencing by hybridization has been described (Drmanac et al., Genomics 4:114 (1989); Koster et al., Nature Biotechnology 14:1123 (1996); U.S. Patent Nos. 5,525,464; 5,202,231 and 5,695,940, among others, all of which are hereby expressly incorporated by reference in their entirety).

Sensitivity, i.e. detection limits, remain a significant obstacle in nucleic acid detection systems, and a variety of techniques have been developed to address this issue. Briefly, these techniques can be classified as either target amplification or signal amplification. Target amplification involves the amplification (i.e. replication) of the target sequence to be detected, resulting in a significant increase in the number of target molecules. Target amplification strategies include the polymerase chain reaction (PCR), strand displacement amplification (SDA), and nucleic acid sequence based amplification (NASBA).

Alternatively, rather than amplify the target, alternate techniques use the target as a template to replicate a signalling probe, allowing a small number of target molecules to result in a large number of signalling probes, that then can be detected. Signal amplification strategies include the ligase chain reaction (LCR), cycling probe technology (CPT), invasive cleavage techniques such as InvaderTM technology, Q-Beta replicase (QβR) technology, and the use of "amplification probes" such as "branched DNA" that result in multiple label probes binding to a single target sequence.

The polymerase chain reaction (PCR) is widely used and described, and involves the use of primer extension combined with thermal cycling to amplify a target sequence; see U.S. Patent Nos. 4,683,195 and 4,683,202, and PCR Essential Data, J. W. Wiley & sons, Ed. C.R. Newton, 1995, all of which are incorporated by reference. In addition, there are a number of variations of PCR which also find use in the invention, including "quantitative competitive PCR" or "QC-PCR", "arbitrarily primed PCR" or "AP-PCR", "immuno-PCR", "Alu-PCR", "PCR single strand conformational polymorphism" or "PCR-SSCP", allelic PCR (see Newton et al. Nucl. Acid Res. 17:2503 91989); "reverse transcriptase PCR" or "RT-PCR", "biotin capture PCR", "vectorette PCR". "panhandle PCR", and "PCR select cDNA subtraction", among others.

Strand displacement amplification (SDA) is generally described in Walker et al., in Molecular Methods for Virus Detection, Academic Press, Inc., 1995, and U.S. Patent Nos. 5,455,166 and 5,130,238, all of which are hereby incorporated by reference.

Nucleic acid sequence based amplification (NASBA) is generally described in U.S. Patent No. 5,409,818 and "Profiting from Gene-based Diagnostics", CTB International Publishing Inc., N.J., 1996,

both of which are incorporated by reference.

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Cycling probe technology (CPT) is a nucleic acid detection system based on signal or probe amplification rather than target amplification, such as is done in polymerase chain reactions (PCR). Cycling probe technology relies on a molar excess of labeled probe which contains a scissile linkage of RNA. Upon hybridization of the probe to the target, the resulting hybrid contains a portion of RNA:DNA. This area of RNA:DNA duplex is recognized by RNAseH and the RNA is excised, resulting in cleavage of the probe. The probe now consists of two smaller sequences which may be released, thus leaving the target intact for repeated rounds of the reaction. The unreacted probe is removed and the label is then detected. CPT is generally described in U.S. Patent Nos. 5,011,769, 5,403,711, 5,660,988, and 4,876,187, and PCT published applications WO 95/05480, WO 95/1416, and WO 95/00667, all of which are specifically incorporated herein by reference.

The oligonucleotide ligation assay (OLA) involve the ligation of at least two smaller probes into a single long probe, using the target sequence as the template for the ligase. See generally U.S. Patent Nos. 5,185,243, 5,679,524 and 5,573,907; EP 0 320 308 B1; EP 0 336 731 B1; EP 0 439 182 B1; WO 90/01069; WO 89/12696; and WO 89/09835, all of which are incorporated by reference.

Invader™ technology is based on structure-specific polymerases that cleave nucleic acids in a site-specific manner. Two probes are used: an "invader" probe and a "signalling" probe, that adjacently hybridize to a target sequence with overlap. For mismatch discrimination, the invader technology relies on complementarity at the overlap position where cleavage occurs. The enzyme cleaves at the overlap, and releases the "tail" which may or may not be labeled. This can then be detected. The Invader™ technology is described in U.S. Patent Nos. 5,846,717; 5,614,402; 5,719,028; 5,541,311; and 5,843,669, all of which are hereby incorporated by reference.

"Branched DNA" signal amplification relies on the synthesis of branched nucleic acids, containing a multiplicity of nucleic acid "arms" that function to increase the amount of label that can be put onto one probe. This technology is generally described in U.S. Patent Nos. 5,681,702, 5,597,909, 5,545,730, 5,594,117, 5,591,584, 5,571,670, 5,580,731, 5,571,670, 5,591,584, 5,624,802, 5,635,352, 5,594,118, 5,359,100, 5,124,246 and 5,681,697, all of which are hereby incorporated by reference.

Similarily, dendrimers of nucleic acids serve to vastly increase the amount of label that can be added to a single molecule, using a similar idea but different compositions. This technology is as described in U.S. Patent No. 5,175,270 and Nilsen et al., J. Theor. Biol. 187:273 (1997), both of which are incorporated herein by reference.

U.S.S.N.s 09/189,543; 08/944,850; 09/033,462; 09/287,573; 09/151,877; 09/187,289 and 09/256,943; and PCT applications US98/09163 and US99/14387; US98/21193; US99/04473 and US98/05025, all

of which are expressly incorporated by reference, describe novel compositions utilizing substrates with microsphere arrays, which allow for novel detection methods of nucleic acid hybridization.

The use of adapter-type sequences that allow the use of universal arrays has been described in limited contexts; see for example Chee et al., Nucl. Acid Res. 19:3301 (1991); Shoemaker et al., Nature Genetics 14:450 (1996); U.S. Patent Nos. 5,494,810, 5,830,711, 6,027,889, 6,054,564, and 6,268,148; and EP 0 799 897 A1; WO 97/31256, all of which are expressly incorporated by reference.

Accordingly, it is an object of the present invention to provide methods for detecting nucleic acid reactions, and other target analytes, on arrays using adapter sequences.

SUMMARY OF THE INVENTION

In accordance with the above objects, the invention also provides a method of detecting a target nucleic acid. The method comprises contacting the target nucleic acid with an adapter sequence such that the target nucleic acid is joined to the adapter sequence to form a modified target nucleic acid. In addition, the method comprises contacting the modified target nucleic acid with an array comprising a substrate with a surface comprising discrete sites and a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that the first capture probe and the modified target nucleic acid form a complex, wherein the microspheres are distributed on the surface, and detecting the presence fo the target nucleic acid. In addition the method comprises adding at least one decoding binding ligand to the array such that the identity of the target nucleic acid is determined. Preferably the adapter nucleic acids include a sequence as set forth in Table Table II, Table III or Table IV.

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In addition the invention provides a method of making an array. The method comprises forming a surface comprising individual sites on a substrate, distributing microspheres on the surface such that the individual sites contain microspheres, wherein the microspheres comprise at least a first and a second subpopulation each comprising a capture probe, wherein the capture probe is complementary to an adapter sequence, the adapter sequence joined to a target nucleic acid, and an identifier binding ligand that will bind at least one decoder binding ligand such that the identification of the target nucleic acid is elucidated. Preferably the adapter nucleic acids include a sequence as set forth in Table I, Table III or Table IV.

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In addition the invention provides a kit comprising at least one nucleic acid selected from the group consisting of the sequences set forth it Table I, Table III or Table IV. In one embodiment the invention provides a kit that includes a nucleic acid that includes a sequence as set forth in Table I, Table II, Table III or Table IV and at least a first universal priming sequence.

In addition the invention includes an array composition comprising a first population of microspheres comprising first and second subpopulations, wherein the first subpopulation includes a first nucleic acid selected from the sequences set forth in Table I, Table II, Table III or Table IV and the second subpopulation includes a second sequence selected from the sequences set forth in Table II, Table III or Table IV.

In addition the invention includes an array composition comprising a first sequence at a known location on a substrate, wherein the first sequence is selected from the sequences set forth in Table I, Table II, Table III or Table IV.

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In addition the invention includes a method for making an array. The method includes distributing a population of microspheres on an substrate, wherein the population includes first and second subpopulations, wherein the first subpopulation includes a first sequence selected from the group consisting of the sequences set forth in Table I, Table II, Table III or Table IV and the sequences set forth in Table I, Table II, Table II, Table III or Table IV.

In addition the method includes a method of immobilizing a target nucleic acid. The method includes hybridizing a first adapter probe with a first target nucleic acid, wherein the first adapter probe comprises a first domain that is complementary to the first target nucleic acid and a second domain, comprising a first sequence selected from the sequences set forth in Table I, Table II, Table III or Table IV to form a first hybridization complex. In addition the method includes contacting the first hybridization complex with a first capture probe immobilized on a first substrate, wherein the first capture probe is substantially complementary to the second domain of the first adapter probe.

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In addition the invention includes a method of decoding an array composition comprising providing an array composition that includes a substrate with a surface comprising discrete sites and a population of microspheres comprising at least a first and a second subpopulation, wherein each subpopulation comprises a bioactive agent. The microspheres are distributed on the surface. The method further includes adding a plurality of decoding binding ligands to the array composition to identify the location of at least a plurality of the bioactive agents wherein at least a first decoder binding ligand comprises a sequence selected from the group consisting of the sequences of Table I, Table II, Table III or Table IV.

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A method of detecting a target nucleic acid sequence, said method comprising attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein the first adapter nucleic acid includes a sequence selected from the sequences set forth in Table I, Table III or Table IV. The method further includes contacting the modified first target nucleic acid sequence with an array comprising a substrate with a patterned surface

comprising discrete sites and a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that the first capture probe and the modified first target nucleic acid sequence form a hybridization complex; wherein the microspheres are distributed on the surface and detecting the presence of the modified first target nucleic acid sequence.

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DETAILED DESCRIPTION OF THE FIGURES

Figure 1 depicts a method of selecting oligonucleotide sequences.

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Figure 2 depicts a scheme for selection of probes and decoder oligonucleotides.

Figure 3 demonstrates hybridization intensity comparison of immobilized beads using non-purified oligonucleotides with HPLC purified oligonucleotides.

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Figure 4 depicts different oligonucleotide sequences immobilized onto silica beads at various salt concentration. Average intensity indicates hybridization intensity of beads in a BeadArray.

Figure 5 depicts immobilization of oligonucleotides in increasing salt concentrations.

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DETAILED DESCRIPTION OF THE INVENTION

This invention is directed to the use of adapter sequences, and optionally capture extender probes, that allow the use of "universal" arrays. That is, a "universal" array is an array with a set of capture probes that will hybridize to adapter sequences, for use in any number of different reactions, including the binding of nucleic acid reactions and other target analytes comprising a nucleic acid adapter sequence that can hybridize to the array. In this way, a manufacturer of arrays can make one type of array that may be used in a variety of applications, thus reducing the manufacturing costs associated with the array. In addition, in the case of bead arrays, the decoding steps as outlined below can be simplified, as one set of decoding probes can be made.

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In general, the use of adapter sequences can be described as follows for nucleic acid reactions. An adapter sequence can be added exogenously to a target nucleic acid sequence using any number of different techniques, including, but not limited to, amplification reactions as described in U.S.S.N. 09/425,633, filed October 22, 1999; 09/513,362, filed February 25, 2000; 09/517,945, filed March 3, 2000; 09/535,854, filed March 27, 2000; 09/553,993, filed April 20, 2000; 09/556,463, filed April 21, 2000; 60/135,051, filed May 20, 1999; 60/135,053, filed May 20, 1999; 60/135,123, filed May 20, 1999; 60/130,089, filed April 20, 1999; 60/160,917, filed October 22, 1999; 60/160,927, filed October 22,

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1999; 60/161,148, filed October 22, 1999; and 60/244,119, filed October 26, 2000 all of which are hereby incorporated by reference. In addition, the adapter can be added to an extension probe. The adapter's quence can then be used to target to its complementary capture probe on the surface.

Alternatively, the adapter sequences can be added to other target analytes, to generate unique and reproducible arrays of target analytes in a similar manner. By adding the nucleic acid to the target analyte (for example to an antibody in an immunoassay), the target analytes may then be arrayed.

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Accordingly, the present invention provides methods for the detection of target analytes, particularly nucleic acid target sequences, in a sample. As will be appreciated by those in the art, the sample solution may comprise any number of things, including, but not limited to, bodily fluids (including, but not limited to, blood, urine, serum, lymph, saliva, anal and vaginal secretions, perspiration and semen, of virtually any organism, with mammalian samples being preferred and human samples being particularly preferred); environmental samples (including, but not limited to, air, agricultural, water and soil samples); biological warfare agent samples; research samples; purified samples, such as purified genomic DNA, RNA, proteins, etc.; raw samples (bacteria, virus, genomic DNA, etc.; As will be appreciated by those in the art, virtually any experimental manipulation may have been done on the sample.

The present invention provides methods for the detection of target analytes, particularly nucleic acid target sequences, in a sample. By "target analyte" or "analyte" or grammatical equivalents herein is meant any molecule, compound or particle to be detected. As outlined below, target analytes preferably bind to binding ligands, as is more fully described below. As will be appreciated by those in the art, a large number of analytes may be detected using the present methods; basically, any target analyte for which a binding ligand, described below, may be made may be detected using the methods of the invention.

Suitable analytes include organic and inorganic molecules, including biomolecules. In a preferred embodiment, the analyte may be an environmental pollutant (including pesticides, insecticides, toxins, etc.); a chemical (including solvents, polymers, organic materials, etc.); therapeutic molecules (including therapeutic and abused drugs, antibiotics, etc.); biomolecules (including hormones, cytokines, proteins, lipids, carbohydrates, cellular membrane antigens and receptors (neural, hormonal, nutrient, and cell surface receptors) or their ligands, etc); whole cells (including procaryotic (such as pathogenic bacteria) and eukaryotic cells, including mammalian tumor cells); viruses (including retroviruses, herpesviruses, adenoviruses, lentiviruses, etc.); and spores; etc. Particularly preferred analytes are environmental pollutants; nucleic acids; proteins (including enzymes, antibodies, antigens, growth factors, cytokines, etc.); therapeutic and abused drugs; cells; and viruses.

In a preferred embodiment, the target analyte is a protein. As will be appreciated by those in the art,

there are a large number of possible proteinaceous target analytes that may b detected using the present invention. By "proteins" or grammatical equivalents herein is meant proteins, oligopeptides and p ptides, derivatives and analogs, including proteins containing non-naturally occurring amino acids and amino acid analogs, and peptidomimetic structures. The side chains may be in either the (R) or the (S) configuration. In a preferred embodiment, the amino acids are in the (S) or L-configuration. As discussed below, when the protein is used as a binding ligand, it may be desirable to utilize protein analogs to retard degradation by sample contaminants.

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Suitable protein target analytes include, but are not limited to, (1) immunoglobulins, particularly IgEs, lgGs and lgMs, and particularly therapeutically or diagnostically relevant antibodies, including but not limited to, for example, antibodies to human albumin, apolipoproteins (including apolipoprotein E), human chorionic gonadotropin, cortisol, α -fetoprotein, thyroxin, thyroid stimulating hormone (TSH), antithrombin, antibodies to pharmaceuticals (including antieptileptic drugs (phenytoin, primidone, carbariezepin, ethosuximide, valproic acid, and phenobarbitol), cardioactive drugs (digoxin, lidocaine, procainamide, and disopyramide), bronchodilators (theophylline), antibiotics (chloramphenicol, sulfonamides), antidepressants, immunosuppresants, abused drugs (amphetamine, methamphetamine, cannabinoids, cocaine and opiates) and antibodies to any number of viruses (including orthomyxoviruses, (e.g. influenza virus), paramyxoviruses (e.g respiratory syncytial virus, mumps virus, measles virus), adenoviruses, rhinoviruses, coronaviruses, reoviruses, togaviruses (e.g. rubella virus), parvoviruses, poxviruses (e.g. variola virus, vaccinia virus), enteroviruses (e.g. poliovirus, coxsackievirus), hepatitis viruses (including A, B and C), herpesviruses (e.g. Herpes simplex virus, varicella-zoster virus, cytomegalovirus, Epstein-Barr virus), rotaviruses, Norwalk viruses, hantavirus, arenavirus, rhabdovirus (e.g. rabies virus), retroviruses (including HIV, HTLV-I and -II), papovaviruses (e.g. papillomavirus), polyomaviruses, and picornaviruses, and the like), and bacteria (including a wide variety of pathogenic and non-pathogenic prokaryotes of interest including Bacillus; Vibrio, e.g. V. cholerae; Escherichia, e.g. Enterotoxigenic E. coli, Shigella, e.g. S. dysenteriae; Salmonella, e.g. S. typhi; Mycobacterium e.g. M. tuberculosis, M. leprae; Clostridium, e.g. C. botulinum, C. tetani, C. difficile, C.perfringens; Cornyebacterium, e.g. C. diphtheriae; Streptococcus, S. pyogenes, S. pneumoniae; Staphylococcus, e.g. S. aureus; Haemophilus, e.g. H. influenzae; Neisseria, e.g. N. meningitidis, N. gonorrhoeae; Yersinia, e.g. G. lambliaY. pestis, Pseudomonas, e.g. P. aeruginosa, P. putida; Chlamydia, e.g. C. trachomatis; Bordetella, e.g. B. pertussis; Treponema, e.g. T. palladium; and the like); (2) enzymes (and other proteins), including but not limited to, enzymes used as indicators of or treatment for heart disease, including creatine kinase, lactate dehydrogenase, aspartate amino transferase, troponin T, myoglobin, fibrinogen, cholesterol, triglycerides, thrombin, tissue plasminogen activator (tPA); pancreatic disease indicators including amylase, lipase, chymotrypsin and trypsin; liver function enzymes and proteins including cholinesterase, bilirubin, and alkaline phosphotase; aldolase, prostatic acid phosphatase, terminal deoxynucleotidyl transferase, and bacterial and viral enzymes such as HIV protease; (3) hormones and cytokines (many of which serve as ligands for cellular receptors) such as erythropoietin (EPO), thrombopoietin (TPO), the interleukins

(including IL-1 through IL-17), insulin, insulin-like growth factors (including IGF-1 and -2), epidermal growth factor (EGF), transforming growth factors (including TGF-α and TGF-β), human growth hormone, transferrin, epidermal growth factor (EGF), low density lipoprotein, high density lipoprotein, leptin, VEGF, PDGF, ciliary neurotrophic factor, prolactin, adrenocorticotropic hormone (ACTH), calcitonin, human chorionic gonadotropin, cotrisol, estradiol, follicle stimulating hormone (FSH), thyroid-stimulating hormone (TSH), leutinzing hormone (LH), progeterone, testosterone, ; and (4) other proteins (including α-fetoprotein, carcinoembryonic antigen CEA.

In addition, any of the biomolecules for which antibodies may be detected may be detected directly as

well; that is, detection of virus or bacterial cells, therapeutic and abused drugs, etc., may be done
directly.

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Suitable target analytes include carbohydrates, including but not limited to, markers for breast cancer (CA15-3, CA 549, CA 27.29), mucin-like carcinoma associated antigen (MCA), ovarian cancer (CA125), pancreatic cancer (DE-PAN-2), and colorectal and pancreatic cancer (CA 19, CA 50, CA242).

In a preferred embodiment, the target analyte (and various adapters and other probes of the invention), comprise nucleic acids. By "nucleic acid" or "oligonucleotide" or grammatical equivalents herein means at least two nucleotides covalently linked together. A nucleic acid of the present invention will generally contain phosphodiester bonds, although in some cases, as outlined below, nucleic acid analogs are included that may have alternate backbones, comprising, for example, phosphoramide (Beaucage et al., Tetrahedron 49(10):1925 (1993) and references therein; Letsinger, J. Org. Chem. 35;3800 (1970); Sprinzl et al., Eur. J. Biochem. 81:579 (1977); Letsinger et al., Nucl. Acids Res. 14;3487 (1986); Sawai et al., Chem. Lett. 805 (1984), Letsinger et al., J. Am. Chem. Soc. 110:4470 (1988); and Pauwels et al., Chemica Scripta 26:141 91986)), phosphorothioate (Mag et al., Nucleic Acids Res. 19:1437 (1991); and U.S. Patent No. 5,644,048), phosphorodithioate (Briu et al., J. Am. Chem. Soc. 111:2321 (1989), O-methylphophoroamidite linkages (see Eckstein, Oligonucleotides and Analogues: A Practical Approach, Oxford University Press), and peptide nucleic acid backbones and linkages (see Egholm, J. Am. Chem. Soc. 114:1895 (1992); Meier et al., Chem. Int. Ed. Engl. 31:1008 (1992); Nielsen, Nature, 365:566 (1993); Carlsson et al., Nature 380:207 (1996), all of which are incorporated by reference). Other analog nucleic acids include those with positive backbones (Denpcy et al., Proc. Natl. Acad. Sci. USA 92:6097 (1995); non-ionic backbones (U.S. Patent Nos. 5,386,023, 5,637,684, 5,602,240, 5,216,141 and 4,469,863; Kledrowshi et al., Angew. Chem. Intl. Ed. English 30:423 (1991); Letsinger et al., J. Am. Chem. Soc. 110:4470 (1988); Letsinger et al., Nucleoside & Nucleotide 13:1597 (1994); Chapters 2 and 3, ASC Symposium Series 580, "Carbohydrate Modifications in Antisense Research", Ed. Y.S. Sanghui and P. Dan Cook; Mesmaeker et al., Bioorganic & Medicinal Chem, Lett. 4:395 (1994); Jeffs et al., J. Biomolecular NMR 34:17 (1994); Tetrahedron Lett. 37:743 (1996)) and non-ribose backbones, including thos described in U.S.

Patent Nos. 5,235,033 and 5,034,506, and Chapters 6 and 7, ASC Symposium Series 580, "Carbohydrate Modifications in Antisens Research", Ed. Y.S. Sanghui and P. Dan Cook. Nucleic acids containing one or more carbocyclic sugars ar also included within the definition of nucleic acids (see Jenkins et al., Chem. Soc. Rev. (1995) pp169-176). Several nucleic acid analogs are described in Rawls, C & E News June 2, 1997 page 35. All of these references are hereby expressly incorporated by reference. These modifications of the ribose-phosphate backbone may be done to facilitate the addition of labels, alter the hybridization properties of the nucleic acids, or to increase the stability and half-life of such molecules in physiological environments.

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As will be appreciated by those in the art, all of these nucleic acid analogs may find use in the present invention. In addition, mixtures of naturally occurring nucleic acids and analogs can be made.

Alternatively, mixtures of different nucleic acid analogs, and mixtures of naturally occurring nucleic acids and analogs may be made.

Particularly preferred are peptide nucleic acids (PNA) which includes peptide nucleic acid analogs.

These backbones are substantially non-ionic under neutral conditions, in contrast to the highly charged phosphodiester backbone of naturally occurring nucleic acids. This results in two advantages. First, the PNA backbone exhibits improved hybridization kinetics. PNAs have larger changes in the melting temperature (Tm) for mismatched versus perfectly matched basepairs. DNA and RNA typically exhibit a 2-4°C drop in Tm for an internal mismatch. With the non-ionic PNA backbone, the drop is closer to 7-9°C. This allows for better detection of mismatches. Similarly, due to their non-ionic nature, hybridization of the bases attached to these backbones is relatively insensitive to salt concentration.

The nucleic acids may be single stranded or double stranded, as specified, or contain portions of both double stranded or single stranded sequence. The nucleic acid may be DNA, both genomic and cDNA, RNA or a hybrid, where the nucleic acid contains any combination of deoxyribo- and ribo-nucleotides, and any combination of bases, including uracil, adenine, thymine, cytosine, guanine, inosine, xathanine hypoxathanine, isocytosine, isoguanine, etc. A preferred embodiment utilizes isocytosine and isoguanine in nucleic acids designed to be complementary to other probes, rather than target sequences, as this reduces non-specific hybridization, as is generally described in U.S. Patent No. 5,681,702. As used herein, the term "nucleoside" includes nucleotides as well as nucleoside and nucleotide analogs, and modified nucleosides such as amino modified nucleosides. In addition, "nucleoside" includes non-naturally occuring analog structures. Thus for example the individual units of a peptide nucleic acid, each containing a base, are referred to herein as a nucleoside.

In general, probes of the present invention (including adapter sequences and capture probes, described below) are designed to be complementary to a target sequence (either the target sequence of the sample or to other probe sequences, for example adapter sequences) such that hybridization of the target and the probes of the present invention occurs. This complementarity need not be perfect;

there may be any number of base pair mismatches that will interfere with hybridization between the target sequence and the single stranded nucleic acids of the pr sent inv ntion. How v r, if the number of mutations is so great that no hybridization can occur und r even the least stringent of hybridization conditions, the sequence is not a complementary target sequence. Thus, by "substantially complementary" herein is meant that the probes are sufficiently complementary to the target sequences to hybridize under the selected reaction conditions.

When nucleic acids are to be detected, they are referred to herein as "target nucleic acids" or "target sequences". The term "target sequence" or "target nucleic acid" or grammatical equivalents herein means a nucleic acid sequence on a single strand of nucleic acid. The target sequence may be a portion of a gene, a regulatory sequence, genomic DNA, cDNA, RNA including mRNA and rRNA, or others. As is outlined herein, the target sequence may be a target sequence from a sample, or a derivative target such as a product of a reaction such as a detection sequence from an Invader™ reaction, a ligated probe from an OLA reaction, an extended probe from an SBE reaction, etc. It may be any length, with the understanding that longer sequences are more specific. As will be appreciated by those in the art, the complementary target sequence may take many forms. For example, it may be contained within a larger nucleic acid sequence, i.e. all or part of a gene or mRNA, a restriction fragment of a plasmid or genomic DNA, among others. As is outlined more fully below, probes are made to hybridize to target sequences to determine the presence or absence of the target sequence in a sample. Generally speaking, this term will be understood by those skilled in the art. The target sequence may also be comprised of different target domains; for example, a first target domain of the sample target sequence may hybridize to a capture probe, a second target domain may hybridize to a portion of a label probe, etc. The target domains may be adjacent or separated as indicated. Unless specified, the terms "first" and "second" are not meant to confer an orientation of the sequences with respect to the 5'-3' orientation of the target sequence. For example, assuming a 5'-3' orientation of the complementary target sequence, the first target domain may be located either 5' to the second domain, or 3' to the second domain. In addition, as will be appreciated by those in the art, the probes on the surface of the array (e.g. attached to the microspheres) may be attached in either orientation, either such that they have a free 3' end or a free 5' end.

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As is more fully outlined below, the target sequence may comprise a position for which sequence information is desired, generally referred to herein as the "detection position" or "detection locus". In a preferred embodiment, the detection position is a single nucleotide, although in some embodiments, it may comprise a plurality of nucleotides, either contiguous with each other or separated by one or more nucleotides. By "plurality" as used herein is meant at least two. As used herein, the base which basepairs with a detection position base in a hybrid is termed a "readout position" or an "interrogation position".

In some embodiments, as is outlined herein, the target sequence may not be the sample target

sequence but instead is a product of a reaction herein, sometimes ref rred to her in as a "secondary" or "derivative" target sequence. Thus, for example, in SBE, the extended primer may serve as the target sequence; similarly, in invasive cleavage variations, the cleaved detection sequence may serve as the target sequence.

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If required, the target sequence is prepared using known techniques. For example, the sample may be treated to lyse the cells, using known lysis buffers, electroporation, etc., with purification and/or amplification as needed, as will be appreciated by those in the art.

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Once prepared, the target sequence can be used in a variety of reactions for a variety of reasons. For example, in a preferred embodiment, genotyping reactions are done. Similarly, these reactions can also be used to detect the presence or absence of a target sequence. Sequencing or amplification reactions are also preferred. In addition, in any reaction, quantitation of the amount of a target sequence may be done.

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Furthermore, as outlined below for each reaction, many of these techniques may be used in a solution based assay, wherein the reaction is done in solution and a reaction product is bound to the array for subsequent detection, or in solid phase assays, where the reaction occurs on the surface and is detected.

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In general, the present invention provides pairs of capture probes (nucleic acids that are attached to addresses on arrays) and adapter sequences (sequences that are either perfectly or substantially complementary to the capture probe sequences) that can be used in a wide variety of ways, to immobilize target nucleic acids (either primary targets, such as genomic DNA, mRNA or cDNA, or secondary targets such as amplicons from a nucleic acid amplification or extension reaction, as outlined herein) to the addresses of the array. Thus, all the sequences in the Tables include their complements, and either sequence can be used as a capture probe (e.g. spotted onto a surface or attached to a microsphere of an array) or as the adapter sequence that binds to the capture probe.

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Accordingly, by "adapter sequences" or "adapters" or grammatical equivalents is meant a nucleic acid segment generally non-native or exogenous to a target molecule that is used to immobilize the target molecule to a solid support via binding to a capture probe sequence. In a preferred embodiment the adapter sequences and capture probes are selected from the sequences set forth in Table I, Table II, Table III or Table IV.

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Table I includes the sequence of the preferred 4000 sequences labeled "Decoder (5'-3')", and inherent in this table are the complementary sequences as well. In addition, the invention includes oligonucleotides that are complementary to those depicted in Table 1.

Table II includes the sequence of the preferred adapter/capture probe sequences and their complementary sequence. Table 2 depicts a preferred subset of 3172 decoder oligonucleotides and their complementary probe oligonucleotides. Accordingly, the invention provides compositions comprising a sequence as outlined in Table 2. In addition, the invention provides a composition comprising a complementary binding pair as outlined in Table 2.

Table 3 includes a preferred subset of 768 decoder oligonucleotides and complementary probe sequences. In some embodiments it may be desirable to include a uniform base at a terminus of the oligonucleotide, such as a T at the 5' end as depicted in Table 4. The inclusion of this uniform or constant base facilitates uniform labeling of the oligonucleotides.

These sequences are used as decoder probes, capture probes or adapter sequences as outlined in U.S.S.N. 09/344,526 and PCT/US99/14387, and U.S.S.N.s 60/160,917 and 09/5656,463 all of which are expressly incorporated by reference in their entirety.

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As will be appreciated by those in the art, the length of the capture probe/adapter sequences will vary, depending on the desired "strength" of binding and the number of different adapters desired. In a preferred embodiment, adapter sequences range from about 5 to about 500 basepairs in length, with from about 8 to about 100 being preferred, and from about 10 to about 50 being particularly preferred.

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As will be appreciated by those in the art, it is desirable to have adapter sequences that do not have significant homology to naturally occurring target sequences, to avoid non-specific or erroneous binding of target sequences to the capture probes. Accordingly, preferred embodiments utilize some method to select useful adapter sequences. In a preferred embodiment the method is outlined in Figure 1. Briefly, random 24-mer (or could be any desired length as outlined herein), sequences were assembled and subjected to certain defined screening procedures including such steps as requiring that the Tm of each of the sequence be within a pre-defined range. In addition the GC content must be balanced with the AT content and the self-complementarity must be minimized. In addition GC runs should be minimized, that is, runs of Gs or Cs should be reduced. In addition, decoder (adapter) to decoder (adapter) complementarity should be reduced so that the adapters do not hybridize with each other. Finally, the sequences are screened against a specified genomic database. In a preferred embodiment the adapters comprise at least one sequence selected from the sequences in Table II, Table III or Table IV.

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In a preferred embodiment, the adapter sequences are chosen on the basis of a decoding step. As is more fully outlined below, a decoding step is used to decode random bead arrays. In this embodiment, a set of candidate capture probes is chosen; this may be done in a variety of ways. In a pr ferred embodiment, the sequences are generated randomly, each of a sufficient length to ensure a

low probability of occurring naturally. In some embodiments, for example when the array will be used with a particular organism's genome (e.g. the human genome, the Drosophila genome, etc.), the sequences are compared to the genome as a first filter, for example to remove sequences that would cross hybridize. Additionally, further filtering may be done using well-known methods, such as known methods for selecting good PCR primers. These techniques generally include steps that remove sequences that may have a propensity to form secondary structures or otherwise to cross-hybridize. Additionally, sequences that have extremes of melting temperatures can be optionally discarded, depending on the planned assay conditions.

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Once a set of candidate capture probes is obtained, an array comprising the capture probes is made, and a matching set of decoding probes comprising the adapter sequences (e.g. the complements of the capture probes), as more fully outlined below, is made. Decoding then proceeds. Probes that do not hybridize well, for whatever reason, will not decode well, generally due to weak signals, and are generally discarded. Probes that cross-hybridize will also not decode well, as they will give ambiguous or mixed decoding signals. Only probes that hybridize sufficiently strongly and specifically will decode. Thus, by setting suitable thresholds for signal strength and signal purity, adapter sequences that perform according to specified criteria are identified. Additionally, by setting a range on signal strength, capture probe/adapter sequence pairs that perform similarly (but hybridize specifically) are identified. In a preferred embodiment, decoding reactions are repeated, under a variety of conditions, to test the robustness of the sequence pair.

Once identified, the adapter sequences are added to target sequences in a variety of ways, as will be appreciated by those in the art. In a preferred embodiment, nucleic acid amplification reactions are done, as is generally outlined in "Detection of Nucleic Acid Amplification Reactions Using Bead Arrays" and "Sequence Determination of Nucleic Acids using Arrays with Microspheres", both of which were filed on October 22, 1999, (U.S.S.N.'s 60/161,148 and 09/425,633, respectively), both of which are hereby incorporated by reference in their entirety. These may be either target amplification or signal amplification. In general, the techniques can be described as follows. Most amplification techniques require one or more primers hybridizing to all or part the target sequence (e.g. that hybridize to a target domain). The adapter sequences can be added to one or more of the primers (depending on the configuration/orientation of the system and need) and the amplification reactions are run. Thus, for example, PCR primers comprising at least one adapter sequence (and preferably one on each PCR primer) may be used; one or both of the ligation probes of an OLA or LCR reaction may comprise an adapter sequence; the sequencing primers for pyrosequencing, single-base extension, reversible chain termination, etc., reactions may comprise an adapter sequence; either the invader probe or the signalling probe of invasive cleavage reactions can comprise an adapter sequence; etc. Similarly, for signal detection techniques, the probes may comprise adapter sequences, with preferred methods utilizing removal of the unreacted probes. In addition, primers may include universal priming sequences. That is, the adapters may additionally contain universal priming sequences for universal

amplification of products of any of the reactions described herein. Universal priming sequences are further outlined in 09/779376, filed February 7, 2001; 09/779202, filed February 7, 2001; 09/915231, filed July 24, 2001; 60/180810, filed February 7, 2000; and 60/297609, filed June 11, 2001; and 60/311194 filed August 9, 2001, all of which are expressly incorporated herein by reference.

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In an alternative embodiment, non-nucleic acid reactions are used to add adapter sequences to the nucleic acid targets. For example, for the direct detection of non-amplified target sequences (e.g. genomic DNA samples, etc.) on universal arrays, non-amplification methods are required. In this embodiment, binding partner pairs or chemical methods may be used. For example, one member of a binding partner pair may be attached to the adapter sequence and the other member attached to the target sequence. For example, the binding partner be a hapten or antigen, which will bind its binding partner. For example, suitable binding partner pairs include, but are not limited to: antigens (such as proteins (including peptides)) and antibodies (including fragments thereof (FAbs, etc.)); proteins and small molecules, including biotin/streptavidin and digoxygenin and antibodies; enzymes and substrates or inhibitors; other protein-protein interacting pairs; receptor-ligands; and carbohydrates and their binding partners, are also suitable binding pairs. Nucleic acid - nucleic acid binding proteins pairs are also useful. In general, the smaller of the pair is attached to the NTP (or the probe) for incorporation into the extension primer. Preferred binding partner pairs include, but are not limited to, biotin (or imino-biotin) and streptavidin, digeoxinin and Abs, and Prolinx™ reagents.

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In a preferred embodiment, chemical attachment methods are used. In this embodiment, chemical functional groups on each of the target sequences and adapter sequences are used. As is known in the art, this may be accomplished in a variety of ways. Preferred functional groups for attachment are amino groups, carboxy groups, oxo groups and thiol groups, with amino groups being particularly preferred. Using these functional groups, the two sequences are joined together; for example, amino groups on each nucleic acid may be attached, for example using linkers as are known in the art; for example, homo-or hetero-bifunctional linkers as are well known (see 1994 Pierce Chemical Company catalog, technical section on cross-linkers, pages 155-200, incorporated herein by reference).

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In a preferred embodiment, aptamers are used in the system. Aptamers are nucleic acids that can be made to bind to virtually any target analyte; see Bock et al., Nature 355:564 (1992); Femulok et al., Current Op. Chem. Biol. 2:230 (1998); and U.S. Patents 5,270,163, 5,475,096, 5,567,588, 5,595,877, 5,637,459, 5,683,867,5,705,337, and related patents, hereby incorporated by reference.

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In a preferred embodiment, an array comprising capture probes that hybridize to adapter sequences is made, as outlined herein. In one embodiment aptamers, comprising adapter sequences, can be added. As will be appreciated by those in the art, the aptamers may be preassociated with their binding partners, e.g. target analytes, prior to introduction to the array, or not. In addition, the association between the adapter sequences on the aptamers and the capture probes can be made

covalent, for example through the use of reactive groups (.g. psoralen) and appropriate activation.

In addition, the present invention is directed to the use of adapter sequences to assemble arrays comprising other target analytes.

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The adapter sequences may be chosen as outlined above. Preferably the adapters are selected from the sequences set forth in Table I, Table II, Table III or Table IV. These adapter sequences can then be added to the target analytes using a variety of techniques. In general, as described above, non-covalent attachment using binding partner pairs may be done, or covalent attachment using chemical moieties (including linkers).

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Advantages of using adapters include but are not limited to, for example, the ability to create universal arrays. That is, a single array is utilized with each capture probe designed to hybridize with a specific adapter. The adapters are joined to any number of target analytes, such as nucleic acids, as is described herein. Thus, the same array is used for vastly different target analytes. Furthermore, hybridization of adapters with capture probes results in non-covalent attachment of the target nucleic acid to the address of the array (e.g. a microsphere in some embodiments). As such, the target nucleic/adapter hybrid is easily removed, and the microsphere/capture probe can be re-used. In addition, the construction of kits is greatly facilitated by the use of adapters. For example, arrays or microspheres can be prepared that comprise the capture probe; the adapters can be packaged along with the microspheres for attachment to any target analyte of interest. Thus, one need only attach the adapter to the target analyte and disperse on the array for the construction of an array of target analytes.

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Accordingly the present invention provides kits comprising adapters. Preferably the kits include at least 1 nucleic acid sequence as set forth in Table 1. More preferably the kits include at least 10-25 nucleic acids, with at least 50 nucleic acids more preferred. Even more preferable are kits that include at least 100 nucleic acids with more than 1000 even more preferred and more than 2000 even more preferred.

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It should also be noted that the sequences defined herein can also be used in "sandwich" assay formats, wherein a capture extender probe comprising a first domain that will hybridize to the capture probe and a second domain that has a target specific domain is used. The capture extender probe hybridizes both to the target sequence and the capture probe, thereby immobilizing the target sequence on the array.

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Once the adapter sequences are associated with the target analyte, including target nucleic acids, the compositions are added to an array comprising addresses comprising capture probes. In one embodiment a plurality of hybrid adapter sequence/target analytes are pooled prior to addition to an

array. All of the methods and compositions herein are drawn to compositions and methods for detecting the presence of target analytes, particularly nucleic acids, using adapter arrays.

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Accordingly, the present invention provides array compositions comprising at least a first substrate with a surface comprising individual sites. The present system finds particular utility in array formats, i.e. wherein there is a matrix of capture probes (herein generally referred to "pads", "addresses" or "micro-locations"). By "array" or "biochip" herein is meant a plurality of nucleic acids in an array format; the size of the array will depend on the composition and end use of the array. Nucleic acids arrays are known in the art, and can be classified in a number of ways; both ordered arrays (e.g. the ability to resolve chemistries at discrete sites), and random arrays are included. Ordered arrays include, but are not limited to, those made using photolithography techniques (Affymetrix GeneChip™), spotting techniques (Synteni and others), printing techniques (Hewlett Packard and Rosetta), three dimensional "gel pad" arrays, etc. In one embodiment the ordered arrays include arrays that contain nucleic acids at known locations. That is, the adapters or capture probes described herein are immobilized at known locations on a substrate. By "known" locations is meant a site that is known or has been known.

In addition, adapters find use "liquid arrays". By "liquid arrays" is meant an array in solution for analysis, for example, by flow cytometry.

A preferred embodiment utilizes microspheres on a variety of substrates including fiber optic bundles, as are outlined in PCTs US98/21193, PCT US99/14387 and PCT US98/05025; WO98/50782; and U.S.S.N.s 09/287,573, 09/151,877, 09/256,943, 09/316,154, 60/119,323, 09/315,584; all of which are expressly incorporated by reference. While much of the discussion below is directed to the use of microsphere arrays on fiber optic bundles, any array format of nucleic acids on solid supports may be utilized.

Arrays containing from about 2 different bioactive agents (e.g. different beads, when beads are used) to many millions can be made, with very large arrays being possible. Generally, the array will comprise from two to as many as a billion or more, depending on the size of the beads and the substrate, as well as the end use of the array, thus very high density, high density, moderate density, low density and very low density arrays may be made. Preferred ranges for very high density arrays are from about 10,000,000 to about 2,000,000,000, with from about 100,000,000 to about 1,000,000 being preferred (all numbers being in square cm). High density arrays range about 100,000 to about 10,000,000, with from about 1,000,000 to about 5,000,000 being particularly preferred. Moderate density arrays range from about 10,000 to about 100,000 being particularly preferred, and from about 20,000 to about 50,000 being especially preferred. Low density arrays are generally less than 10,000, with from about 1,000 to about 5,000 being preferred. Very low density arrays are less than 1,000, with from about 10 to about 1000 being preferred, and from about 100 to about 500 being particularly preferred. In some embodiments, the compositions of the invention may

not be in array format; that is, for some embodiments, compositions comprising a single bloactive agent may be made as well. In addition, in some arrays, multiple substrates may be used, either of different or id ntical compositions. Thus for example, larg arrays may comprise a plurality of smaller substrates.

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In addition, one advantage of the present compositions is that particularly through the use of fiber optic technology, extremely high density arrays can be made. Thus for example, because beads of 200 μ m or less (with beads of 200 nm possible) can be used, and very small fibers are known, it is possible to have as many as 40,000 or more (in some instances, 1 million) different elements (e.g. fibers and beads) in a 1 mm² fiber optic bundle, with densities of greater than 25,000,000 individual beads and fibers (again, in some instances as many as 50-100 million) per 0.5 cm² obtainable (4 million per square cm for 5 μ center-to-center and 100 million per square cm for 1 μ center-to-center).

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By "substrate" or "solid support" or other grammatical equivalents herein is meant any material that can be modified to contain discrete individual sites appropriate for the attachment or association of beads and is amenable to at least one detection method. As will be appreciated by those in the art, the number of possible substrates is very large. Possible substrates include, but are not limited to, glass and modified or functionalized glass, plastics (including acrylics, polystyrene and copolymers of styrene and other materials, polypropylene, polyethylene, polybutylene, polyurethanes, Teflon, etc.), polysaccharides, nylon or nitrocellulose, resins, silica or silica-based materials including silicon and modified silicon, carbon, metals, inorganic glasses, plastics, optical fiber bundles, and a variety of other polymers. In general, the substrates allow optical detection and do not themselves appreciably fluoresce.

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Generally the substrate is flat (planar), although as will be appreciated by those in the art, other configurations of substrates may be used as well; for example, three dimensional configurations can be used, for example by embedding the beads in a porous block of plastic that allows sample access to the beads and using a confocal microscope for detection. Similarly, the beads may be placed on the inside surface of a tube, for flow-through sample analysis to minimize sample volume. Preferred substrates include optical fiber bundles as discussed below, and flat planar substrates such as glass, polystyrene and other plastics and acrylics.

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In a preferred embodiment, the substrate is an optical fiber bundle or array, as is generally described in U.S.S.N.s 08/944,850 and 08/519,062, PCT US98/05025, and PCT US98/09163, all of which are expressly incorporated herein by reference. Preferred embodiments utilize preformed unitary fiber optic arrays. By "preformed unitary fiber optic array" herein is meant an array of discrete individual fiber optic strands that are co-axially disposed and joined along their lengths. The fiber strands are generally individually clad. However, one thing that distinguished a preformed unitary array from other fiber optic formats is that the fibers are not individually physically manipulatable; that is, one strand

generally cannot be physically separated at any point along its length from another fiber strand.

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At least one surface of the substrate is modified to contain discrete, individual sites for later association of microspheres. These sites may comprise physically altered sites, i.e. physical configurations such as wells or small depressions in the substrate that can retain the beads, such that a microsphere can rest in the well, or the use of other forces (magnetic or compressive), or chemically altered or active sites, such as chemically functionalized sites, electrostatically altered sites, hydrophobically/ hydrophilically functionalized sites, spots of adhesive, etc.

The sites may be a pattern, i.e. a regular design or configuration, or randomly distributed. A preferred embodiment utilizes a regular pattern of sites such that the sites may be addressed in the X-Y coordinate plane. "Pattern" in this sense includes a repeating unit cell, preferably one that allows a high density of beads on the substrate. However, it should be noted that these sites may not be discrete sites. That is, it is possible to use a uniform surface of adhesive or chemical functionalities, for example, that allows the attachment of beads at any position. That is, the surface of the substrate is modified to allow attachment of the microspheres at individual sites, whether or not those sites are contiguous or non-contiguous with other sites. Thus, the surface of the substrate may be modified such that discrete sites are formed that can only have a single associated bead, or alternatively, the surface of the substrate is modified and beads may go down anywhere, but they end up at discrete sites.

In a preferred embodiment, the surface of the substrate is modified to contain wells, i.e. depressions in the surface of the substrate. This may be done as is generally known in the art using a variety of techniques, including, but not limited to, photolithography, stamping techniques, molding techniques and microetching techniques. As will be appreciated by those in the art, the technique used will depend on the composition and shape of the substrate.

In a preferred embodiment, physical alterations are made in a surface of the substrate to produce the sites. In a preferred embodiment, the substrate is a fiber optic bundle and the surface of the substrate is a terminal end of the fiber bundle, as is generally described in 08/818,199 and 09/151,877, both of which are hereby expressly incorporated by reference. In this embodiment, wells are made in a terminal or distal end of a fiber optic bundle comprising individual fibers. In this embodiment, the cores of the individual fibers are etched, with respect to the cladding, such that small wells or depressions are formed at one end of the fibers. The required depth of the wells will depend on the size of the beads to be added to the wells.

Generally in this embodiment, the microspheres are non-covalently associated in the wells, although the wells may additionally be chemically functionalized as is generally described below, cross-linking agents may be used, or a physical barrier may be used, i.e. a film or membrane over the beads.

In a pr ferred mbodiment, th surface of the substrate is modified to contain chemically modified sites, that can be used to attach, ither covalently or non-covalently, the microspheres of the invention to the discrete sites or locations on the substrate. "Chemically modified sit s" in this context includes, but is not limited to, the addition of a pattern of chemical functional groups including amino groups, carboxy groups, oxo groups and thiol groups, that can be used to covalently attach microspheres, which generally also contain corresponding reactive functional groups; the addition of a pattern of adhesive that can be used to bind the microspheres (either by prior chemical functionalization for the addition of the adhesive or direct addition of the adhesive); the addition of a pattern of charged groups (similar to the chemical functionalities) for the electrostatic attachment of the microspheres, i.e. when the microspheres comprise charged groups opposite to the sites; the addition of a pattern of chemical functional groups that renders the sites differentially hydrophobic or hydrophilic, such that the addition of similarly hydrophobic or hydrophilic microspheres under suitable experimental conditions will result in association of the microspheres to the sites on the basis of hydroaffinity. For example, the use of hydrophobic sites with hydrophobic beads, in an aqueous system, drives the association of the beads preferentially onto the sites. As outlined above, "pattern" in this sense includes the use of a uniform treatment of the surface to allow attachment of the beads at discrete sites, as well as treatment of the surface resulting in discrete sites. As will be appreciated by those in the art, this may be accomplished in a variety of ways.

In a preferred embodiment, the compositions of the invention further comprise a population of microspheres. By "population" herein is meant a plurality of beads as outlined above for arrays. Within the population are separate subpopulations, which can be a single microsphere or multiple identical microspheres. That is, in some embodiments, as is more fully outlined below, the array may contain only a single bead for each capture probe; preferred embodiments utilize a plurality of beads of each type.

By "microspheres" or "beads" or "particles" or grammatical equivalents herein is meant small discrete particles. The composition of the beads will vary, depending on the class of capture probe and the method of synthesis. Suitable bead compositions include those used in peptide, nucleic acid and organic moiety synthesis, including, but not limited to, plastics, ceramics, glass, polystyrene, methylstyrene, acrylic polymers, paramagnetic materials, thoria sol, carbon graphite, titanium dioxide, latex or cross-linked dextrans such as Sepharose, cellulose, nylon, cross-linked micelles and Teflon may all be used. "Microsphere Detection Guide" from Bangs Laboratories, Fishers IN is a helpful guide.

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The beads need not be spherical; irregular particles may be used. In addition, the beads may be porous, thus increasing the surface area of the bead available for either capture probe attachment or tag attachment. The bead sizes range from nanometers, i.e. 100 nm, to millimeters, i.e. 1 mm, with beads from about 0.2 micron to about 200 microns being preferr d, and from about 0.5 to about 5

micron being particularly preferred, although in some embodiments smaller beads may be used.

It should be noted that a key compon int of this embodiment of the invention is the use of a substrate/bead pairing that allows the association or attachment of the beads at discrete sites on the surface of the substrate, such that the beads do not move during the course of the assay.

Each microsphere comprises a capture probe, although as will be appreciated by those in the art, there may be some microspheres which do not contain a capture probe, depending on the synthetic methods. Alternatively, some have more than one capture probe.

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Attachment of the nucleic acids may be done in a variety of ways, as will be appreciated by those in the art, including, but not limited to, chemical or affinity capture (for example, including the incorporation of derivatized nucleotides such as AminoLink or biotinylated nucleotides that can then be used to attach the nucleic acid to a surface, as well as affinity capture by hybridization), cross-linking, and electrostatic attachment, etc. In a preferred embodiment, affinity capture is used to attach the nucleic acids to the beads. For example, nucleic acids can be derivatized, for example with one member of a binding pair, and the beads derivatized with the other member of a binding pair. Suitable binding pairs are as described herein for IBL/DBL pairs. For example, the nucleic acids may be biotinylated (for example using enzymatic incorporate of biotinylated nucleotides, for by photoactivated cross-linking of biotin). Biotinylated nucleic acids can then be captured on streptavidincoated beads, as is known in the art. Similarly, other hapten-receptor combinations can be used, such as digoxigenin and anti-digoxigenin antibodies. Alternatively, chemical groups can be added in the form of derivatized nucleotides, that can them be used to add the nucleic acid to the surface.

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Preferred attachments are covalent, although even relatively weak interactions (i.e. non-covalent) can be sufficient to attach a nucleic acid to a surface, if there are multiple sites of attachment per each nucleic acid. Thus, for example, electrostatic interactions can be used for attachment, for example by having beads carrying the opposite charge to the bioactive agent.

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Similarly, affinity capture utilizing hybridization can be used to attach nucleic acids to beads. For example, as is known in the art, polyA+RNA is routinely captured by hybridization to oligo-dT beads; this may include oligo-dT capture followed by a cross-linking step, such as psoralen crosslinking). If the nucleic acids of interest do not contain a polyA tract, one can be attached by polymerization with terminal transferase, or via ligation of an oligoA linker, as is known in the art.

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Alternatively, chemical crosslinking may be done, for example by photoactivated crosslinking of thymidine to reactive groups, as is known in the art.

In a preferred embodiment, each bead comprises a single type of capture probe, although a plurality of

individual capture probes are preferably attached to each bead. Similarly, pr ferred embodiments utilize more than one microsphere containing a unique capture probe; that is, th re is redundancy built into the system by the use of subpopulations of microspheres, ach microsphere in the subpopulation containing the same capture probe.

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In an alternative embodiment, each bead comprises a plurality of different capture probes.

As will be appreciated by those in the art, the capture probes may either be synthesized directly on the beads, or they may be made and then attached after synthesis. In a preferred embodiment, linkers are used to attach the capture probes to the beads, to allow both good attachment, sufficient flexibility to allow good interaction with the target molecule, and to avoid undesirable binding reactions.

In a preferred embodiment, the capture probes are synthesized directly on the beads. As is known in the art, many classes of chemical compounds are currently synthesized on solid supports, such as peptides, organic moieties, and nucleic acids. It is a relatively straightforward matter to adjust the current synthetic techniques to use beads.

In a preferred embodiment, the capture probes are synthesized first, and then covalently attached to the beads. As will be appreciated by those in the art, this will be done depending on the composition of the capture probes and the beads. The functionalization of solid support surfaces such as certain polymers with chemically reactive groups such as thiols, amines, carboxyls, etc. is generally known in the art. Accordingly, "blank" microspheres may be used that have surface chemistries that facilitate the attachment of the desired functionality by the user. Some examples of these surface chemistries for blank microspheres include, but are not limited to, amino groups including aliphatic and aromatic amines, carboxylic acids, aldehydes, amides, chloromethyl groups, hydrazide, hydroxyl groups, sulfonates and sulfates.

In a preferred embodiment the attachment of nucleic acids to substrates includes contacting the oligonucleotide and the solid support in the presence of high salt concentrations. As is appreciated by those skilled in the art, salt includes, but is not limited to sodium chloride, potassium chloride, calcium chloride, magnesium chloride, lithium chloride, rubidium chloride, cesium chloride, barium chloride and the like. In a preferred embodiment, salt as used in the invention includes sodium chloride.

By high salt concentrations is meant salt that is more concentrated than about 0.1 M salt. In a preferred embodiment, by high salt concentrations is meant greater than about 0.2 M salt. In a particularly preferred embodiment, high salt concentrations include from about 0.5 to 3M salt, with about 1M to 2M being most preferred.

By solid support or other grammatical equivalents herein is meant any material that can be modified

to contain oligonucleotides. As will be appreciated by those in the art, the number of possible solid supports is very large. Possible solid supports include, but are not limited to beads, glass and modified or functionalized glass, plastics (including acrylics, polystyrene and copolymers of styrene and other materials, polypropylene, polyethylene, polybutylene, polyurethanes, Teflon, etc.), polysaccharides, nylon or nitrocellulose, resins, silica or silica-based materials including silicon and modified silicon, carbon, metals, inorganic glasses, plastics, optical fiber bundles, and a variety of other polymers.

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Once formed, the support containing the oligonucleotides finds use in a variety of systems including decoding arrays as described in more detail in U.S.S.N. 09/344,526, and U.S.S.N. 09/574, 117, both of which are expressly incorporated herein by reference. In addition, the support containing the oligonucleotides finds use in microfluidic systems as described in U.S.S.N. 09/306,369 which is expressly incorporated herein by reference. In addition, the support containing the oligonucleotides finds use in composite array systems as described in U.S.S.N. 09/606,369, which is expressly incorporated herein by reference. In addition the support containing the oligonucleotides finds use in a variety of assays as outlined in more detail in U.S.S.N.s 09/513,362, 09/517,945, 09/535,854, 60/160,917, 60/180,810, 60/182,955, and 09/566,463, all of which are expressly incorporated herein by reference in their entirety. In addition, the support containing the oligonucleotides finds use in array based sensors as described in more detail in 09/287,573, 09/260,963, 09/450,829, 09/151,877, 09/187,289 and 08/519,062, all of which are expressly incorporated herein by reference in their entirety.

Accordingly the invention provides a method of attaching oligonucleotides to a solid support. The method includes contacting the oligonucleotides with the support in the presence of high salt as described herein. Once attached, as discussed in the examples, the attached oligonucleotides readily hybridize to targets, probes and the like. Attachment of crude oligonucleotides in the presence of high salt is as efficient as attaching purified oligonucleotides. Thus, the invention also contemplates a method of attachment of oligonucleotides to a solid support without prior purification of the oligonucleotides. Again, the method includes contacting the crude oligonucleotides with a solid support in the presence of high salt as described herein.

The capture probes are designed to be substantially complementary to the adapter sequences, to allow for a minimum of cross reactivity.

When microsphere arrays are used, an encoding/decoding system must be used. That is, since the beads are generally put onto the substrate randomly, there are several ways to correlate the functionality on the bead with its location, including the incorporation of unique optical signatures, generally fluorescent dyes, that could be used to identify the chemical functionality on any particular bead. This allows the synthesis of the candidate agents (i.e. compounds such as nucleic acids and

antibodies) to be divorced from the ir placement on an array, i.e. the candidate agents may be synthesized on the beads, and then the beads are randomly distributed on a patterned surface. Since the beads are first coded with an optical signature, this means that the array can later be "decoded", i.e. after the array is made, a correlation of the location of an individual site on the array with the bead or candidate agent at that particular site can be made. This means that the beads may be randomly distributed on the array, a fast and inexpensive process as compared to either the in situ synthesis or spotting techniques of the prior art.

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However, the drawback to these methods is that for a large array, the system requires a large number of different optical signatures, which may be difficult or time-consuming to utilize. Accordingly, the present invention provides several improvements over these methods, generally directed to methods of coding and decoding the arrays. That is, as will be appreciated by those in the art, the placement of the capture probes is generally random, and thus a coding/decoding system is required to identify the probe at each location in the array. This may be done in a variety of ways, as is more fully outlined below, and generally includes: a) the use a decoding binding ligand (DBL), generally directly labeled, that binds to either the capture probe or to identifier binding ligands (IBLs) attached to the beads; b) positional decoding, for example by either targeting the placement of beads (for example by using photoactivatible or photocleavable moieties to allow the selective addition of beads to particular locations), or by using either sub-bundles or selective loading of the sites, as are more fully outlined below; c) selective decoding, wherein only those beads that bind to a target are decoded; or d) combinations of any of these. In some cases, as is more fully outlined below, this decoding may occur for all the beads, or only for those that bind a particular target sequence. Similarly, this may occur either prior to or after addition of a target sequence. In addition, as outlined herein, the target sequences detected may be either a primary target sequence (e.g. a patient sample), or a reaction product from one of the methods described herein (e.g. an extended SBE probe, a ligated probe, a cleaved signal probe, etc.).

Once the identity (i.e. the actual agent) and location of each microsphere in the array has been fixed, the array is exposed to samples containing the target sequences, although as outlined below, this can be done prior to or during the analysis as well. The target sequences can hybridize (either directly or indirectly) to the capture probes as is more fully outlined below, and results in a change in the optical signal of a particular bead.

In the present invention, "decoding" may not rely on the use of optical signatures, but rather on the use of decoding binding ligands that are added during a decoding step. The decoding binding ligands will bind either to a distinct identifier binding ligand partner that is placed on the beads, or to the capture probe itself. In this embodiment the decoding binding ligand either is complementary to the capture probe. In this embodiment the decoding binding ligand has the sequence of the adapter that also binds to the capture probe. In a preferred embodiment the decoder binding ligand is a nucleic acid

that has the sequence of at least one of the nucleic acids set forth in Table 1.

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The decoding binding ligands are either directly or indirectly labeled, and thus decoding occurs by detecting the presence of the label. By using pools of decoding binding ligands in a sequential fashion, it is possible to greatly minimize the number of required decoding steps.

In some embodiments, the microspheres may additionally comprise identifier binding ligands for use in certain decoding systems. By "identifier binding ligands" or "IBLs" herein is meant a compound that will specifically bind a corresponding decoder binding ligand (DBL) to facilitate the elucidation of the identity of the capture probe attached to the bead. That is, the IBL and the corresponding DBL form a binding partner pair. By "specifically bind" herein is meant that the IBL binds its DBL with specificity sufficient to differentiate between the corresponding DBL and other DBLs (that is, DBLs for other IBLs), or other components or contaminants of the system. The binding should be sufficient to remain bound under the conditions of the decoding step, including wash steps to remove non-specific binding. In some embodiments, for example when the IBLs and corresponding DBLs are proteins or nucleic acids, the dissociation constants of the IBL to its DBL will be less than about 10-4-10-6 M-1, with less than about 10-5 to 10-8 M-1 being preferred and less than about 10-7-10-9 M-1 being particularly preferred.

IBL-DBL binding pairs are known or can be readily found using known techniques. For example, when the IBL is a protein, the DBLs include proteins (particularly including antibodies or fragments thereof (FAbs, etc.)) or small molecules, or vice versa (the IBL is an antibody and the DBL is a protein). Metal ion- metal ion ligands or chelators pairs are also useful. Antigen-antibody pairs, enzymes and substrates or inhibitors, other protein-protein interacting pairs, receptor-ligands, complementary nucleic acids, and carbohydrates and their binding partners are also suitable binding pairs. Nucleic acid - nucleic acid binding proteins pairs are also useful. Similarly, as is generally described in U.S. Patents 5,270,163, 5,475,096, 5,567,588, 5,595,877, 5,637,459, 5,683,867,5,705,337, and related patents, hereby incorporated by reference, nucleic acid "aptamers" can be developed for binding to virtually any target; such an aptamer-target pair can be used as the IBL-DBL pair. Similarly, there is a wide body of literature relating to the development of binding pairs based on combinatorial chemistry methods.

In a preferred embodiment, the IBL is a molecule whose color or luminescence properties change in the presence of a selectively-binding DBL. For example, the IBL may be a fluorescent pH indicator whose emission intensity changes with pH. Similarly, the IBL may be a fluorescent ion indicator, whose emission properties change with ion concentration.

Alternatively, the IBL is a molecule whose color or luminescence properties change in the presence of various solvents. For example, the IBL may be a fluorescent molecule such as an ethidium salt whose

fluorescence intensity increases in hydrophobic environments. Similarly, the IBL may be a derivative of fluorescein whose color changes between aqueous and nonpolar solvents.

In one embodiment, the DBL may be attached to a bead, i.e. a "decoder bead", that may carry a label such as a fluorophore.

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In a preferred embodiment, the IBL-DBL pair comprise substantially complementary single-stranded nucleic acids. In this embodiment, the binding ligands can be referred to as "identifier probes" and "decoder probes". Generally, the identifier and decoder probes range from about 4 basepairs in length to about 1000, with from about 6 to about 100 being preferred, and from about 8 to about 40 being particularly preferred. What is important is that the probes are long enough to be specific, i.e. to distinguish between different IBL-DBL pairs, yet short enough to allow both a) dissociation, if necessary, under suitable experimental conditions, and b) efficient hybridization.

In a preferred embodiment, as is more fully outlined below, the IBLs do not bind to DBLs. Rather, the IBLs are used as identifier moieties ("IMs") that are identified directly, for example through the use of mass spectroscopy.

Alternatively, in a preferred embodiment, the IBL and the capture probe are the same moiety; thus, for example, as outlined herein, particularly when no optical signatures are used, the capture probe can serve as both the identifier and the agent. For example, in the case of nucleic acids, the bead-bound probe (which serves as the capture probe) can also bind decoder probes, to identify the sequence of the probe on the bead. Thus, in this embodiment, the DBLs bind to the capture probes.

In one embodiment, the microspheres may contain an optical signature. That is, as outlined in U.S.S.N.s 08/818,199 and 09/151,877, previous work had each subpopulation of microspheres comprising a unique optical signature or optical tag that is used to identify the unique capture probe of that subpopulation of microspheres; that is, decoding utilizes optical properties of the beads such that a bead comprising the unique optical signature may be distinguished from beads at other locations with different optical signatures. Thus the previous work assigned each capture probe a unique optical signature such that any microspheres comprising that capture probe are identifiable on the basis of the signature. These optical signatures comprised dyes, usually chromophores or fluorophores, that were entrapped or attached to the beads themselves. Diversity of optical signatures utilized different fluorochromes, different ratios of mixtures of fluorochromes, and different concentrations (intensities) of fluorochromes.

In a preferred embodiment, the present invention does not rely solely on the use of optical properties to decode the arrays. However, as will be appreciated by those in the art, it is possible in some embodiments to utilize optical signatures as an additional coding method, in conjunction with the

present system. Thus, for example, as is more fully outlined below, the size of the array may b effectively increased while using a single set of decoding moieties in several ways, on of which is the use of optical signatures one some beads. Thus, for example, using one "set" of decoding molecules, the use of two populations of beads, one with an optical signature and one without, allows the effective doubling of the array size. The use of multiple optical signatures similarly increases the possible size of the array.

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In a preferred embodiment, each subpopulation of beads comprises a plurality of different IBLs. By using a plurality of different IBLs to encode each capture probe, the number of possible unique codes is substantially increased. That is, by using one unique IBL per capture probe, the size of the array will be the number of unique IBLs (assuming no "reuse" occurs, as outlined below). However, by using a plurality of different IBLs per bead, n, the size of the array can be increased to 2ⁿ, when the presence or absence of each IBL is used as the indicator. For example, the assignment of 10 IBLs per bead generates a 10 bit binary code, where each bit can be designated as "1" (IBL is present) or "0" (IBL is absent). A 10 bit binary code has 2¹⁰ possible variants However, as is more fully discussed below, the size of the array may be further increased if another parameter is included such as concentration or intensity; thus for example, if two different concentrations of the IBL are used, then the array size increases as 3ⁿ. Thus, in this embodiment, each individual capture probe in the array is assigned a combination of IBLs, which can be added to the beads prior to the addition of the capture probe, after, or during the synthesis of the capture probe, i.e. simultaneous addition of IBLs and capture probe components.

Alternatively, the combination of different IBLs can be used to elucidate the sequence of the nucleic acid. Thus, for example, using two different IBLs (IBL1 and IBL2), the first position of a nucleic acid can be elucidated: for example, adenosine can be represented by the presence of both IBL1 and IBL2; thymidine can be represented by the presence of IBL1 but not IBL2, cytosine can be represented by the presence of IBL2 but not IBL1, and guanosine can be represented by the absence of both. The second position of the nucleic acid can be done in a similar manner using IBL3 and IBL4; thus, the presence of IBL1, IBL2, IBL3 and IBL4 gives a sequence of AA; IBL1, IBL2, and IBL3 shows the sequence AT; IBL1, IBL3 and IBL4 gives the sequence TA, etc. The third position utilizes IBL5 and IBL6, etc. In this way, the use of 20 different identifiers can yield a unique code for every possible 10-mer.

In this way, a sort of "bar code" for each sequence can be constructed; the presence or absence of each distinct IBL will allow the identification of each capture probe.

In addition, the use of different concentrations or densities of IBLs allows a "reuse" of sorts. If, for example, the bead comprising a first agent has a 1X concentration of IBL, and a second bead comprising a second agent has a 10X concentration of IBL, using saturating concentrations of the

corresponding labelled DBL allows the user to distinguish b tween the two beads.

Once the microspheres comprising the capture probes are generated, they are added to the substrate to form an array. It should be noted that while most of the methods described herein add the beads to the substrate prior to the assay, the order of making, using and decoding the array can vary. For example, the array can be made, decoded, and then the assay done. Alternatively, the array can be made, used in an assay, and then decoded; this may find particular use when only a few beads need be decoded. Alternatively, the beads can be added to the assay mixture, i.e. the sample containing the target sequences, prior to the addition of the beads to the substrate; after addition and assay, the array may be decoded. This is particularly preferred when the sample comprising the beads is agitated or mixed; this can increase the amount of target sequence bound to the beads per unit time, and thus (in the case of nucleic acid assays) increase the hybridization kinetics. This may find particular use in cases where the concentration of target sequence in the sample is low; generally, for low concentrations, long binding times must be used.

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In general, the methods of making the arrays and of decoding the arrays is done to maximize the number of different candidate agents that can be uniquely encoded. The compositions of the invention may be made in a variety of ways. In general, the arrays are made by adding a solution or slurry comprising the beads to a surface containing the sites for attachment of the beads. This may be done in a variety of buffers, including aqueous and organic solvents, and mixtures. The solvent can evaporate, and excess beads are removed.

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In a preferred embodiment, when non-covalent methods are used to associate the beads with the array, a novel method of loading the beads onto the array is used. This method comprises exposing the array to a solution of particles (including microspheres and cells) and then applying energy, e.g. agitating or vibrating the mixture. This results in an array comprising more tightly associated particles, as the agitation is done with sufficient energy to cause weakly-associated beads to fall off (or out, in the case of wells). These sites are then available to bind a different bead. In this way, beads that exhibit a high affinity for the sites are selected. Arrays made in this way have two main advantages as compared to a more static loading: first of all, a higher percentage of the sites can be filled easily, and secondly, the arrays thus loaded show a substantial decrease in bead loss during assays. Thus, in a preferred embodiment, these methods are used to generate arrays that have at least about 50% of the sites filled, with at least about 75% being preferred, and at least about 90% being particularly preferred. Similarly, arrays generated in this manner preferably lose less than about 20% of the beads during an assay, with less than about 10% being preferred and less than about 5% being particularly preferred.

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In this embodiment, the substrate comprising the surface with the discrete sites is immersed into a solution comprising the particles (beads, cells, etc.). The surface may comprise wells, as is described

herein, or other types of sit is on a patterned surface such that there is a differential affinity for the sit is. This differential affinity results in a competitive process, such that particles that will associate more tightly are selected. Preferably, the entire surface to be "loaded" with beads is in fluid contact with the solution. This solution is generally a slurry ranging from about 10,000:1 beads:solution (vol:vol) to 1:1. Generally, the solution can comprise any number of reagents, including aqueous buffers, organic solvents, salts, other reagent components, etc. In addition, the solution preferably comprises an excess of beads; that is, there are more beads than sites on the array. Preferred embodiments utilize two-fold to billion-fold excess of beads.

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- The immersion can mimic the assay conditions; for example, if the array is to be "dipped" from above into a microtiter plate comprising samples, this configuration can be repeated for the loading, thus minimizing the beads that are likely to fall out due to gravity.
 - Once the surface has been immersed, the substrate, the solution, or both are subjected to a competitive process, whereby the particles with lower affinity can be disassociated from the substrate and replaced by particles exhibiting a higher affinity to the site. This competitive process is done by the introduction of energy, in the form of heat, sonication, stirring or mixing, vibrating or agitating the solution or substrate, or both.
- A preferred embodiment utilizes agitation or vibration. In general, the amount of manipulation of the substrate is minimized to prevent damage to the array; thus, preferred embodiments utilize the agitation of the solution rather than the array, although either will work. As will be appreciated by those in the art, this agitation can take on any number of forms, with a preferred embodiment utilizing microtiter plates comprising bead solutions being agitated using microtiter plate shakers.
 - The agitation proceeds for a period of time sufficient to load the array to a desired fill. Depending on the size and concentration of the beads and the size of the array, this time may range from about 1 second to days, with from about 1 minute to about 24 hours being preferred.
- It should be noted that not all sites of an array may comprise a bead; that is, there may be some sites on the substrate surface which are empty. In addition, there may be some sites that contain more than one bead, although this is not preferred.
- In some embodiments, for example when chemical attachment is done, it is possible to attach the beads in a non-random or ordered way. For example, using photoactivatible attachment linkers or photoactivatible adhesives or masks, selected sites on the array may be sequentially rendered suitable for attachment, such that defined populations of beads are laid down.

The arrays of the present invention are constructed such that information about the identity of the

capture probe is built into the array, such that the random deposition of the beads in the fiber wells can be "decoded" to allow identification of the capture probe at all positions. This may be done in a variety of ways, and either before, during or after the use of the array to detect target molecules.

Thus, after the array is made, it is "decoded" in order to identify the location of one or more of the capture probes, i.e. each subpopulation of beads, on the substrate surface.

In a preferred embodiment, pyrosequencing techniques are used to decode the array, as is generally described in "Nucleic Acid Sequencing using Microsphere Arrays", filed October 22, 1999 (no U.S.S.N. received yet), hereby incorporated by reference.

In a preferred embodiment, a selective decoding system is used. In this case, only those microspheres exhibiting a change in the optical signal as a result of the binding of a target sequence are decoded. This is commonly done when the number of "hits", i.e. the number of sites to decode, is generally low. That is, the array is first scanned under experimental conditions in the absence of the target sequences. The sample containing the target sequences is added, and only those locations exhibiting a change in the optical signal are decoded. For example, the beads at either the positive or negative signal locations may be either selectively tagged or released from the array (for example through the use of photocleavable linkers), and subsequently sorted or enriched in a fluorescence-activated cell sorter (FACS). That is, either all the negative beads are released, and then the positive beads are either released or analyzed in situ, or alternatively all the positives are released and analyzed. Alternatively, the labels may comprise halogenated aromatic compounds, and detection of the label is done using for example gas chromatography, chemical tags, isotopic tags mass spectral tags.

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As will be appreciated by those in the art, this may also be done in systems where the array is not decoded; i.e. there need not ever be a correlation of bead composition with location. In this embodiment, the beads are loaded on the array, and the assay is run. The "positives", i.e. those beads displaying a change in the optical signal as is more fully outlined below, are then "marked" to distinguish or separate them from the "negative" beads. This can be done in several ways, preferably using fiber optic arrays. In a preferred embodiment, each bead contains a fluorescent dye. After the assay and the identification of the "positives" or "active beads", light is shown down either only the positive fibers or only the negative fibers, generally in the presence of a light-activated reagent (typically dissolved oxygen). In the former case, all the active beads are photobleached. Thus, upon non-selective release of all the beads with subsequent sorting, for example using a fluorescence activated cell sorter (FACS) machine, the non-fluorescent active beads can be sorted from the fluorescent negative beads. Alternatively, when light is shown down the negative fibers, all the negatives are non-fluorescent and the the postives are fluorescent, and sorting can proceed. The characterization of the attached capture probe may be done directly, for example using mass

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spectroscopy.

Alternatively, the identification may occur through the use of identifier moieties ("IMs"), which are similar to IBLs but need not necessarily bind to DBLs. That is, rather than elucidate the structure of the capture probe directly, the composition of the IMs may serve as the identifier. Thus, for example, a specific combination of IMs can serve to code the bead, and be used to identify the agent on the bead upon release from the bead followed by subsequent analysis, for example using a gas chromatograph or mass spectroscope.

Alternatively, rather than having each bead contain a fluorescent dye, each bead comprises a nonfluorescent precursor to a fluorescent dye. For example, using photocleavable protecting groups, such as certain ortho-nitrobenzyl groups, on a fluorescent molecule, photoactivation of the fluorochrome can be done. After the assay, light is shown down again either the "positive" or the "negative" fibers, to distinguish these populations. The illuminated precursors are then chemically 15 converted to a fluorescent dye. All the beads are then released from the array, with sorting, to form populations of fluorescent and non-fluorescent beads (either the positives and the negatives or vice versa).

In an alternate preferred embodiment, the sites of attachment of the beads (for example the wells) include a photopolymerizable reagent, or the photopolymerizable agent is added to the assembled array. After the test assay is run, light is shown down again either the "positive" or the "negative" fibers, to distinguish these populations. As a result of the irradiation, either all the positives or all the negatives are polymerized and trapped or bound to the sites, while the other population of beads can be released from the array.

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In a preferred embodiment, the location of every capture probe is determined using decoder binding ligands (DBLs). As outlined above, DBLs are binding ligands that will either bind to identifier binding ligands, if present, or to the capture probes themselves, preferably when the capture probe is a nucleic acid or protein.

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In a preferred embodiment, as outlined above, the DBL binds to the IBL.

In a preferred embodiment, the capture probes are single-stranded nucleic acids and the DBL is a substantially complementary single-stranded nucleic acid that binds (hybridizes) to the capture probe, termed a decoder probe herein. A decoder probe that is substantially complementary to each candidate probe is made and used to decode the array. In this embodiment, the candidate probes and the decoder probes should be of sufficient length (and the decoding step run under suitable conditions) to allow specificity; i.e. each candidate probe binds to its corresponding decoder probe with sufficient specificity to allow the distinction of each candidate probe.

In a preferr d embodiment, the DBLs are either directly or indirectly labeled. In a pr ferred embodiment, the DBL is directly labeled, that is, the DBL comprises a label. In an alternate mbodiment, the DBL is indirectly labeled; that is, a labeling binding ligand (LBL) that will bind to the DBL is used. In this embodiment, the labeling binding ligand-DBL pair can be as described above for IBL-DBL pairs.

Accordingly, the identification of the location of the individual beads (or subpopulations of beads) is done using one or more decoding steps comprising a binding between the labeled DBL and either the IBL or the capture probe (i.e. a hybridization between the candidate probe and the decoder probe when the capture probe is a nucleic acid). After decoding, the DBLs can be removed and the array can be used; however, in some circumstances, for example when the DBL binds to an IBL and not to the capture probe, the removal of the DBL is not required (although it may be desirable in some circumstances). In addition, as outlined herein, decoding may be done either before the array is used to in an assay, during the assay, or after the assay.

In one embodiment, a single decoding step is done. In this embodiment, each DBL is labeled with a unique label, such that the the number of unique tags is equal to or greater than the number of capture probes (although in some cases, "reuse" of the unique labels can be done, as described herein; similarly, minor variants of candidate probes can share the same decoder, if the variants are encoded in another dimension, i.e. in the bead size or label). For each capture probe or IBL, a DBL is made that will specifically bind to it and contains a unique tag, for example one or more fluorochromes. Thus, the identity of each DBL, both its composition (i.e. its sequence when it is a nucleic acid) and its label, is known. Then, by adding the DBLs to the array containing the capture probes under conditions which allow the formation of complexes (termed hybridization complexes when the components are nucleic acids) between the DBLs and either the capture probes or the IBLs, the location of each DBL can be elucidated. This allows the identification of the location of each capture probe; the random array has been decoded. The DBLs can then be removed, if necessary, and the target sample applied.

In a preferred embodiment, the number of unique labels is less than the number of unique capture probes, and thus a sequential series of decoding steps are used. In this embodiment, decoder probes are divided into n sets for decoding. The number of sets corresponds to the number of unique tags. Each decoder probe is labeled in n separate reactions with n distinct tags. All the decoder probes share the same n tags. The decoder probes are pooled so that each pool contains only one of the n tag versions of each decoder, and no two decoder probes have the same sequence of tags across all the pools. The number of pools required for this to be true is determined by the number of decoder probes and the n. Hybridization of each pool to the array generates a signal at every address. The sequential hybridization of ach pool in turn will generate a unique, sequence-specific code for each candidate probe. This identifies the candidate probe at each address in the array. For example, if four

tags are used, the n 4 X n sequential hybridizations can ideally distinguish 4ⁿ sequences, although in some cases more steps may be required. After the hybridization of each pool, the hybrids are denatured and the decoder probes removed, so that the probes are rendered single-stranded for the next hybridization (although it is also possible to hybridize limiting amounts of target so that the available probe is not saturated. Sequential hybridizations can be carried out and analyzed by subtracting pre-existing signal from the previous hybridization).

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An example is illustrative. Assuming an array of 16 probe nucleic acids (numbers 1-16), and four unique tags (four different fluors, for example; labels A-D). Decoder probes 1-16 are made that correspond to the probes on the beads. The first step is to label decoder probes 1-4 with tag A, decoder probes 5-8 with tag B, decoder probes 9-12 with tag C, and decoder probes 13-16 with tag D. The probes are mixed and the pool is contacted with the array containing the beads with the attached candidate probes. The location of each tag (and thus each decoder and candidate probe pair) is then determined. The first set of decoder probes are then removed. A second set is added, but this time, decoder probes 1, 5, 9 and 13 are labeled with tag A, decoder probes 2, 6, 10 and 14 are labeled with tag B, decoder probes 3, 7, 11 and 15 are labeled with tag C, and decoder probes 4, 8, 12 and 16 are labeled with tag D. Thus, those beads that contained tag A in both decoding steps contain candidate probe 1; tag A in the first decoding step and tag B in the second decoding step contain candidate probe 2; tag A in the first decoding step and tag C in the second step contain candidate probe 3; etc. In one embodiment, the decoder probes are labeled in situ; that is, they need not be labeled prior to the decoding reaction. In this embodiment, the incoming decoder probe is shorter than the candidate probe, creating a 5' "overhang" on the decoding probe. The addition of labeled ddNTPs (each labeled with a unique tag) and a polymerase will allow the addition of the tags in a sequence specific manner, thus creating a sequence-specific pattern of signals. Similarly, other modifications can be done, including ligation, etc.

In addition, since the size of the array will be set by the number of unique decoding binding ligands, it is possible to "reuse" a set of unique DBLs to allow for a greater number of test sites. This may be done in several ways; for example, by using some subpopulations that comprise optical signatures. Similarly, the use of a positional coding scheme within an array; different sub-bundles may reuse the set of DBLs. Similarly, one embodiment utilizes bead size as a coding modality, thus allowing the reuse of the set of unique DBLs for each bead size. Alternatively, sequential partial loading of arrays with beads can also allow the reuse of DBLs. Furthermore, "code sharing" can occur as well.

In a preferred embodiment, the DBLs may be reused by having some subpopulations of beads comprise optical signatures. In a preferred embodiment, the optical signature is generally a mixture of reporter dyes, preferably flourescent. By varying both the composition of the mixture (i.e. the ratio of one dye to another) and the concentration of the dye (leading to differences in signal intensity), matrices of unique optical signatures may be generated. This may be done by covalently attaching the

dyes to the surface of the beads, or alternatively, by entrapping the dye within the bead.

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In a preferred embodiment, the encoding can be accomplished in a ratio of at 1 ast two dyes, although more encoding dimensions may be added in the size of the beads, for example. In addition, the labels are distinguishable from one another; thus two different labels may comprise different molecules (i.e. two different fluors) or, alternatively, one label at two different concentrations or intensity.

In a preferred embodiment, the dyes are covalently attached to the surface of the beads. This may be done as is generally outlined for the attachment of the capture probes, using functional groups on the surface of the beads. As will be appreciated by those in the art, these attachments are done to minimize the effect on the dye.

In a preferred embodiment, the dyes are non-covalently associated with the beads, generally by entrapping the dyes in the pores of the beads.

Additionally, encoding in the ratios of the two or more dyes, rather than single dye concentrations, is preferred since it provides insensitivity to the Intensity of light used to interrogate the reporter dye's signature and detector sensitivity.

In a preferred embodiment, a spatial or positional coding system is done. In this embodiment, there are sub-bundles or subarrays (i.e. portions of the total array) that are utilized. By analogy with the telephone system, each subarray is an "area code", that can have the same tags (i.e. telephone numbers) of other subarrays, that are separated by virtue of the location of the subarray. Thus, for example, the same unique tags can be reused from bundle to bundle. Thus, the use of 50 unique tags in combination with 100 different subarrays can form an array of 5000 different capture probes. In this embodiment, it becomes important to be able to identify one bundle from another; in general, this is done either manually or through the use of marker beads, i.e. beads containing unique tags for each subarray.

In alternative embodiments, additional encoding parameters can be added, such as microsphere size. For example, the use of different size beads may also allow the reuse of sets of DBLs; that is, it is possible to use microspheres of different sizes to expand the encoding dimensions of the microspheres. Optical fiber arrays can be fabricated containing pixels with different fiber diameters or cross-sections; alternatively, two or more fiber optic bundles, each with different cross-sections of the individual fibers, can be added together to form a larger bundle; or, fiber optic bundles with fiber of the same size cross-sections can be used, but just with different sized beads. With different diameters, the largest wells can be filled with the largest microspheres and then moving onto progressively smaller microspheres in the smaller wells until all size wells are then filled. In this manner, the same dye ratio could be used to encode microspheres of different sizes thereby expanding the number of

different oligonucleotide sequences or chemical functionalities pres nt in the array. Although outlined for fiber optic substrates, this as well as the other methods outlined herein can be used with other substrates and with other attachment modalities as well.

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In a preferred embodiment, the coding and decoding is accomplished by sequential loading of the microspheres into the array. As outlined above for spatial coding, in this embodiment, the optical signatures can be "reused". In this embodiment, the library of microspheres each comprising a different capture probe (or the subpopulations each comprise a different capture probe), is divided into a plurality of sublibraries; for example, depending on the size of the desired array and the number of unique tags, 10 sublibraries each comprising roughly 10% of the total library may be made, with each sublibrary comprising roughly the same unique tags. Then, the first sublibrary is added to the fiber optic bundle comprising the wells, and the location of each capture probe is determined, generally through the use of DBLs. The second sublibrary is then added, and the location of each capture probe is again determined. The signal in this case will comprise the signal from the "first" DBL and the "second" DBL; by comparing the two matrices the location of each bead in each sublibrary can be determined. Similarly, adding the third, fourth, etc. sublibraries sequentially will allow the array to be filled.

In a preferred embodiment, codes can be "shared" in several ways. In a first embodiment, a single code (i.e. IBL/DBL pair) can be assigned to two or more agents if the target sequences different sufficiently in their binding strengths. For example, two nucleic acid probes used in an mRNA quantitation assay can share the same code if the ranges of their hybridization signal intensities do not overlap. This can occur, for example, when one of the target sequences is always present at a much higher concentration than the other. Alternatively, the two target sequences might always be present at a similar concentration, but differ in hybridization efficiency.

Alternatively, a single code can be assigned to multiple agents if the agents are functionally equivalent. For example, if a set of oligonucleotide probes are designed with the common purpose of detecting the presence of a particular gene, then the probes are functionally equivalent, even though they may differ in sequence. Similarly, an array of this type could be used to detect homologs of known genes. In this embodiment, each gene is represented by a heterologous set of probes, hybridizing to different regions of the gene (and therefore differing in sequence). The set of probes share a common code. If a homolog is present, it might hybridize to some but not all of the probes. The level of homology might be indicated by the fraction of probes hybridizing, as well as the average hybridization intensity. Similarly, multiple antibodies to the same protein could all share the same code.

In a preferred embodiment, decoding of self-assembled random arrays is done on the bases of pH titration. In this embodiment, in addition to capture probes, the beads comprise optical signatures, wherein the optical signatures are generated by the use of pH-responsive dyes (sometimes r ferred to

herein as "ph dyes") such as fluorophores. This embodiment is similar to that outlined in PCT US98/05025 and U.S.S.N. 09/151,877, both of which are expressly incorporated by ref rence, xcept that the dyes used in the present ivention exhibits changes in fluorescence intensity (or other properties) when the solution pH is adjusted from below the pKa to above the pKa (or vice versa). In a preferred embodiment, a set of pH dyes are used, each with a different pKa, preferably separated by at least 0.5 pH units. Preferred embodiments utilize a pH dye set of pKa's of 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11, and 11.5. Each bead can contain any subset of the pH dyes, and in this way a unique code for the capture probe is generated. Thus, the decoding of an array is achieved by titrating the array from pH 1 to pH 13, and measuring the fluorescence signal from each bead as a function of solution pH.

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Thus, the present invention provides array compositions comprising a substrate with a surface comprising discrete sites. A population of microspheres is distributed on the sites, and the population comprises at least a first and a second subpopulation. Each subpopulation comprises a capture probe, and, in addition, at least one optical dye with a given pKa. The pKas of the different optical dyes are different.

In a preferred embodiment, "random" decoding probes can be made. By sequential hybridizations or the use of multiple labels, as is outlined above, a unique hybridization pattern can be generated for each sensor element. This allows all the beads representing a given clone to be identified as belonging to the same group. In general, this is done by using random or partially degenerate decoding probes, that bind in a sequence-dependent but not highly sequence-specific manner. The process can be repeated a number of times, each time using a different labeling entity, to generate a different pattern of singals based on quasi-specific interactions. In this way, a unique optical signature is eventually built up for each sensor element. By applying pattern recognition or clustering algorithms to the optical signatures, the beads can be grouped into sets that share the same signature (i.e. carry the same probes).

In order to identify the actual sequence of the clone itself, additional procedures are required; for example, direct sequencing can be done, or an ordered array containing the clones, such as a spotted cDNA array, to generate a "key" that links a hybridization pattern to a specific clone.

Alternatively, clone arrays can be decoded using binary decoding with vector tags. For example, partially randomized oligos are cloned into a nucleic acid vector (e.g. plasmid, phage, etc.). Each oligonucleotide sequence consists of a subset of a limited set of sequences. For example, if the limites set comprises 10 sequences, each oligonucleotide may have some subset (or all of the 10) sequences. Thus each of the 10 sequences can be present or absent in the oligonucleotide. Therefore, there are 2¹⁰ or 1,024 possible combinations. The sequences may overlap, and minor variants can also be represented (e.g. A, C, T and G substitutions) to increase the number of possible

combinations. A nucleic acid library is cloned into a vector containing the random code sequences. Alternatively, other methods such as PCR can be used to add the tags. In this way it is possible to use a small number of oligo decoding prob s to decode an array of clones.

As will be appreciated by those in the art, the systems of the invention may take on a large number of different configurations, as is generally depicted in the Figures. In general, there are three types of systems that can be used: (1) "non-sandwich" systems (also referred to herein as "direct" detection) in which the target sequence itself is labeled with detectable labels (again, either because the primers comprise labels or due to the incorporation of labels into the newly synthesized strand); (2) systems in which label probes directly bind to the target analytes; and (3) systems in which label probes are indirectly bound to the target sequences, for example through the use of amplifier probes.

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Detection of the reactions of the invention, including the direct detection of products and indirect detection utilizing label probes (i.e. sandwich assays), is preferably done by detecting assay complexes comprising detectable labels, which can be attached to the assay complex in a variety of ways.

In a preferred embodiment, an array of different and usually artificial capture probes are made; that is, the capture probes do not have complementarity to known target sequences. The adapter sequences can then be added to any target sequences, or soluble capture extender probes are made; this allows the manufacture of only one kind of array, with the user able to customize the array through the use of adapter sequences or capture extender probes. This then allows the generation of customized soluble probes, which as will be appreciated by those in the art is generally simpler and less costly.

When capture extender probes are used, in one embodiment, microsphere arrays containing a single type of capture probe are made; in this embodiment, the capture extender probes are added to the beads prior to loading on the array. The capture extender probes may be additionally fixed or crosslinked, as necessary.

Accordingly, the present invention provides compositions and methods for detecting the presence or absence of target analytes, including nucleic acid sequences, in a sample. As will be appreciated by those in the art, the sample solution may comprise any number of things, including, but not limited to, bodily fluids (including, but not limited to, blood, urine, serum, lymph, saliva, anal and vaginal secretions, perspiration and semen, of virtually any organism, with mammalian samples being preferred and human samples being particularly preferred); environmental samples (including, but not limited to, air, agricultural, water and soil samples); biological warfare agent samples; research samples (i.e. in the case of nucleic acids, the sample may be the products of an amplification reaction, including both target and signal amplification); purified samples, such as purified genomic DNA, RNA, proteins, etc.; raw samples (bacteria, virus, genomic DNA, etc.; As will be appreciated by those in the

art, virtually any experimental manipulation may have been done n the sample.

The pr sent invention provides compositions and methods for detecting the presence or absence of target nucleic acid sequences in a sample.

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In a preferred embodiment, several levels of redundancy are built into the arrays of the invention. Building redundancy into an array gives several significant advantages, including the ability to make quantitative estimates of confidence about the data and significant increases in sensitivity. Thus, preferred embodiments utilize array redundancy. As will be appreciated by those in the art, there are at least two types of redundancy that can be built into an array: the use of multiple identical sensor elements (termed herein "sensor redundancy"), and the use of multiple sensor elements directed to the same target analyte, but comprising different chemical functionalities (termed herein "target redundancy"). For example, for the detection of nucleic acids, sensor redundancy utilizes of a plurality of sensor elements such as beads comprising identical binding ligands such as probes. Target redundancy utilizes sensor elements with different probes to the same target: one probe may span the first 25 bases of the target, a second probe may span the second 25 bases of the target, etc. By building in either or both of these types of redundancy into an array, significant benefits are obtained. For example, a variety of statistical mathematical analyses may be done.

In addition, while this is generally described herein for bead arrays, as will be appreciated by those in the art, this techniques can be used for any type of arrays designed to detect target analytes.

Furthermore, while these techniques are generally described for nucleic acid systems, these techniques are useful in the detection of other binding ligand/target analyte systems as well.

In a preferred embodiment, sensor redundancy is used. In this embodiment, a plurality of sensor elements, e.g. beads, comprising identical bioactive agents are used. That is, each subpopulation comprises a plurality of beads comprising identical bioactive agents (e.g. binding ligands). By using a number of identical sensor elements for a given array, the optical signal from each sensor element can be combined and any number of statistical analyses run, as outlined below. This can be done for a variety of reasons. For example, in time varying measurements, redundancy can significantly reduce the noise in the system. For non-time based measurements, redundancy can significantly increase the confidence of the data.

In a preferred embodiment, a plurality of identical sensor elements are used. As will be appreciated by those in the art, the number of identical sensor elements will vary with the application and use of the sensor array. In general, anywhere from 2 to thousands may be used, with from 2 to 100 being preferred, 2 to 50 being particularly preferred and from 5 to 20 being especially preferred. In general, preliminary results indicate that roughly 10 beads gives a sufficient advantage, although for some applications, more identical sensor elements can be used.

Once obtained, the optical response signals from a plurality of sensor beads within each bead subpopulation can be manipulated and analyzed in a wide variety of ways, including baseline adjustment, averaging, standard deviation analysis, distribution and cluster analysis, confidence interval analysis, mean testing, etc.

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In a preferred embodiment, the first manipulation of the optical response signals is an optional baseline adjustment. In a typical procedure, the standardized optical responses are adjusted to start at a value of 0.0 by subtracting the integer 1.0 from all data points. Doing this allows the baseline-loop data to remain at zero even when summed together and the random response signal noise is canceled out. When the sample is a fluid, the fluid pulse-loop temporal region, however, frequently exhibits a characteristic change in response, either positive, negative or neutral, prior to the sample pulse and often requires a baseline adjustment to overcome noise associated with drift in the first few data points due to charge buildup in the CCD camera. If no drift is present, typically the baseline from the first data point for each bead sensor is subtracted from all the response data for the same bead. If drift is observed, the average baseline from the first ten data points for each bead sensor is substracted from the all the response data for the same bead. By applying this baseline adjustment, when multiple bead responses are added together they can be amplified while the baseline remains at zero. Since all beads respond at the same time to the sample (e.g. the sample pulse), they all see the pulse at the exact same time and there is no registering or adjusting needed for overlaying their responses. In addition, other types of baseline adjustment may be done, depending on the requirements and output of the system used.

Once the baseline has been adjusted, a number of possible statistical analyses may be run to generate known statistical parameters. Analyses based on redundancy are known and generally described in texts such as Freund and Walpole, Mathematical Statistics, Prentice Hall, Inc. New Jersey, 1980, hereby incorporated by reference in its entirety.

In a preferred embodiment, signal summing is done by simply adding the intensity values of all responses at each time point, generating a new temporal response comprised of the sum of all bead responses. These values can be baseline-adjusted or raw. As for all the analyses described herein, signal summing can be performed in real time or during post-data acquisition data reduction and analysis. In one embodiment, signal summing is performed with a commercial spreadsheet program (Excel, Microsoft, Redmond, WA) after optical response data is collected.

Methods for signal summing and analyses are included in U.S.S.N. 08/944,850, filed October 6, 1997; 09/287,573, filed April 6, 1999; and 60/238,866, filed October 6, 2000; an PCT Nos. US98/21193, filed October 6, 1998; and US00/09183, filed April 6, 2000.

Once made, the methods and compositions of the invention find use in a number of applications. In a

preferred embodiment, the compositions are used to probe a sample solution for the presence or absence of a target sequence, including the quantification of the amount of target sequence present. The compositions and methods find utility in the detection of genotyping assays and sequencing assays, and in all sorts of target analyte assays, including immunoassays.

For SNP analysis, the ratio of different labels at a particular location on the array indicates the homozygosity or heterozygosity of the target sample, assuming the same concentration of each readout probe is used. Thus, for example, assuming a first readout probe comprising a first base at the readout position with a first detectable label and a second readout probe comprising a second base at the readout position with a second detectable label, equal signals (roughly 1:1 (taking into account the different signal intensities of the different labels, different hybridization efficiencies, and other reasons)) of the first and second labels indicates a heterozygote. The absence of a signal from the first label (or a ratio of approximately 0:1) indicates a homozygote of the second detection base; the absence of a signal from the second label (or a ratio of approximately 1:0) indicates a homozygote for the first detection base. As is appreciated by those in the art, the actual ratios for any particular system are generally determined empirically.

Generally, a sample containing a target analyte (whether for detection of the target analyte or screening for binding partners of the target analyte) is added to the array, under conditions suitable for binding of the target analyte to at least one of the capture probes, i.e. generally physiological conditions. The presence or absence of the target analyte is then detected. As will be appreciated by those in the art, this may be done in a variety of ways, generally through the use of a change in an optical signal. This change can occur via many different mechanisms. A few examples include the binding of a dye-tagged analyte to the bead, the production of a dye species on or near the beads, the destruction of an existing dye species, a change in the optical signature upon analyte interaction with dye on bead, or any other optical interrogatable event.

In a preferred embodiment, the change in optical signal occurs as a result of the binding of a target analyte that is labeled, either directly or indirectly, with a detectable label, preferably an optical label such as a fluorochrome. Thus, for example, when a proteinaceous target analyte is used, it may be either directly labeled with a fluor, or indirectly, for example through the use of a labeled antibody. Similarly, nucleic acids are easily labeled with fluorochromes, for example during PCR amplification as is known in the art. Alternatively, upon binding of the target sequences, a hybridization indicator may be used as the label. Hybridization indicators preferentially associate with double stranded nucleic acid, usually reversibly. Hybridization indicators include intercalators and minor and/or major groove binding moieties. In a preferred embodiment, intercalators may be used; since intercalation generally only occurs in the presence of double stranded nucleic acid, only in the presence of target hybridization will the label light up. Thus, upon binding of the target analyte to a capture probe, there is a new optical signal generated at that site, which then may be detected.

Alternatively, in some cases, as discussed above, the target analyte such as an enzyme generates a species that is either directly or indirectly optical detectable.

Furthermore, in some embodiments, a change in the optical signature may be the basis of the optical signal. For example, the interaction of some chemical target analytes with some fluorescent dyes on the beads may alter the optical signature, thus generating a different optical signal.

As will be appreciated by those in the art, in some embodiments, the presence or absence of the target analyte may be done using changes in other optical or non-optical signals, including, but not limited to, surface enhanced Raman spectroscopy, surface plasmon resonance, radioactivity, etc.

The assays may be run under a variety of experimental conditions, as will be appreciated by those in the art. A variety of other reagents may be included in the screening assays. These include reagents like salts, neutral proteins, e.g. albumin, detergents, etc which may be used to facilitate optimal protein-protein binding and/or reduce non-specific or background interactions. Also reagents that otherwise improve the efficiency of the assay, such as protease inhibitors, nuclease inhibitors, anti-microbial agents, etc., may be used. The mixture of components may be added in any order that provides for the requisite binding. Various blocking and washing steps may be utilized as is known in the art.

The following examples serve to more fully describe the manner of using the above-described invention, as well as to set forth the best modes contemplated for carrying out various aspects of the invention. It is understood that these examples in no way serve to limit the true scope of this invention, but rather are presented for illustrative purposes. All references cited herein are incorporated by

reference in their entirety.

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Examples

Example 1

Immobilization of Crude Oligonucleotides to a Solid Support

- Introduce chemical functional group (such as -NH2, -COOH, -NCO, -NHS, -SH, -CHO, etc.) onto solid support.
 - 2. Activate the functional group before oligonucleotide attachment.
 - 3. 5'-terminal modified oligonucleotide attachment.

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Crude Oligonucleotides were attached to supports and compared to results from attachment of purified oligonucleotides. As demonstrated in Figure 3, in the presence of 2M salt, crude oligonucleotides were immobilized as efficiently as purified oligonucleotides.

15 IN addition, the improved attachment of oligonucleotides to a solid support in the presence of increased salt was sequence and length independent. Thus, the method finds use in attachment of all oligonucleotides to a solid support (see Figure 4).

In addition, when 0.5 M to 3 M NaCl was used for attachment of oligonucleotides, non-purified oligonucleotides were attached with comparable efficiency when compared to purified oligonucleotides (see Figure 5).

TABLE 1

· ·	Seq. ID No.	Decoder (5-3')
	17	GGCTGGTTCGGCCCGAAAGCTTAG
	18	GTTCCCAGTGAAGCTGCGATCTGG
5	19	TACTTGGCATGGAATCCCTTACGC
	20	ACTAGCATATTTCAGGGCACCGGC
	21	GAACGGTCAATGAACCCGCTGTGA
	22	GCGGCCTTGGTTCAATATGAATCG
	23	GATCGTTAGAGGGACCTTGCCCGA
10	24	TGGACCTAGTCCGGCAGTGACGAA
	25	ATAAACTACCCAGGACGGGCGGAA
	26	CATCGGTTCGCGCCAATCCAGATA
	27	GTCGGGCATAGAGCCGACCACCCT
	28	CTTGGGTCATGATTCACCGTGCTA
15	29	TGCCTAACGTGCTAATCAGCAGCG
	30	CGCATGTTGGAGCATATGCCCTGA
	31	AGCCACTGCATCAGTGCTGTTCAA
	32	GGTTGTTTTGAGGCGTCCCACACT
	33	TCGACCAAGAGCAAGGGCGGACCA
20	34	GACATCGCTATTGCGCATGGATCA
	35	GAAATACGAAGTCTGCGGGAGTCG
	36	TGTCATGAATGATTGATCGCGCGA
	37	ATATCGGGATTCGTTCCCGGTGAA
	38	GCGAGCGTACCGAAGGGCCTAGAA
25	39	TTACCGGCAGCGGACTTCCGAATT
	40	GTAATCGAGAGCTGCGCGCCGTCT
	41	TCCCTGAGGTCGGAAGCTTCCGAC
	42	CCTGTTAGCGTAGGCGAGTCGATC
	43	TAGCGGACCGGCAGAATGAGTTCC
30	44	GGTACATGCACTACGCGCACTCGG
	45	AATTCATCTCGGACTCCCGCGGTA
	46	GCCAAATCTGGATTGGCAGGAATG
	47	TGCATTTTCGGTTGAGGCACATCC
	48	CCGCTCAATTCACCATGCTTCGCT
35	49 '	CTCGGAAAGGTGCAACTTTGGTGT
	50	AATTCGACCAGCAGAACGTCCCAT
	51	GCCAGAGTCTCAACCTCACGGGAT
	52	CCAACAACTGGAACGGGAACCCGC
	-53	GAGAACTGATCGCTGAGGGGCATG
40	54	GGCACACTAGACTTGTGGCACCGA

Г		CTTCCCCAAACCCTTCACCCACAA
}	55	CTTGGGCAAACGCTTCAGCCACAA
<u> </u>	56	TCACATCCAAATATGGTCCGCGAA
	57	GTCTGCCGGTGTGACCGCTTCATT
_	58	CATCGCAGAGCATAAACACCCTCA
5	59	GTTGGTATCTATGGCAGAGGCGGA
-	60	ACGAGGTGCCGCTGAGGTTCCATT
	61	GGAATGAGTGGACCCAGGCACATT
Ļ	62	TGTCAATATGCGTCCGTGTCGTCT
	63	TGATGAGCCTCAGGGTACGAGGCA
10	64	CACCGCGGTGTTCCTACAGAATGA
<u> </u>	65	TTGTTGCCAATGGTGTCCGCTCGG
	66	TTAACCTGCGTCTGCCCCTTTCCT
	67	AGGCGCGTTCCTGCCTTAGTGACG
	68	TAGGGCGATGGCACGAAGCTTCAA
15	69	TGCATAGAGCCAAAGTCGGCGATG
	70	TTGAGAGGCAGGTGGCCACACGGA
	71	TCCGCATTGTGAGAAAAACGAGC
	72	GGCGGTTTCCGTAGCTATAGGTGC
	73	GGTGAAAATTTCGTAGCCACGGGC
20	74	CCGACGGAGGATGAAGACAATCAC
	75	CCAGTTTGGCCCAATTCGCCAAAA
	76	GGATCTATTAGGCCGTGCGCACAG
	77	CGGATGTCACCGTTTGGACTTTCA
1	78	ATCGCAAATCCTGCTCGTCCCTAA
25	79	CAGGGCATGCAATAATCGAGGTTC
	80	CATGCGTTGATATATGGGCCCAAG
	81	CAGCTGCAGCTTGTGACCAACCAC
	82	TTGTATGTCTGCCGACCGGCGACC
Ì	83	GATGGCGCCCGTTGATAGGTATGG
30	84	ATGAGAATCGCCGGCAATCTGCTA
	85	ATTTGCACTGACCGCAGGCTCGTG
	86	CAGGGAGAACGGTTAAGTTCCCGT
	87	AGGCCGGCGATCGAGGAGTTTGGT
	88	ACACGGTGGTCTCTGATAGCGACC
35	89	GTGCAACGCCGAGGACTTCCATCA
	90	TCGGTGCCTGATAGCCATTCCGAT
	91	TGAAATACCACACAGCCAATTGGC
	92	GCATCGTGTACATGACTGCCGCGA
	93	CAGTGTTCTAACGGCGCGCGTGAA
40	94	CGCTTGCAACGTTGCACCTACTCT
	95	CGAAAAACTAGTGGGCTCGCCGCG
	96	CTTTCAGGGGAACTGCCGGAGTCG
•		12

Γ	97	TTGTGGCCTTCTTGTAAAGGCACG
<u></u>	98	TCCACGAACGGCGACCCGTTGTCT
[99	CGACCTTGCACGAAACCTAACGAG
Ī	100	GTGCAGCTTCACGAGCCAGCCTGA
5	101	CGCTTTCGTGCGAATAGACGATGA
Ī	102	TGCGCTTACAGGCTCCTAGTGGTC
	103	CACGCGCTTAGTCGCGATCGCATA
	104	CGGAGGGAGGAGCTAGCCTTCGA
Ī	105	GCATCCGGCCTGTTGATGACGCCT
10	106	AGGCCAATCGATCTTATTGCCGAG
	107	CCTTCCAATGATTGCATACGCCCA
	108	AACACTTGATCAGGCGGGTCGTCT
[109	TGGAATCAAGGCCGTAAAGGACAG
Ţ	110	GCTCCCGTAACCTGTCCACCAGTG
15	111	AGTGGTGAATGGCCGCTACCCTGA
[112	TGTTGAAGCGAGCTAAAACGGCCA
	113	CAGCGCTCCAGAATTGACAGCAAT
	114	AAGGTGGTGCCATTCATTTGGCTA
	115	CGTTAAACCGCAATCCGTTCGGCT
20	116	TGTCTTCCACCTCGAAGGTTTCCA
	117	CACGAGATACCGGCGTAAGGGTGG
	118	CTACGGCAAACGTGTGGAATGGGT
	119	GTAGGGCGATGACGGGCGAACTAC
	120	AATCGACCTCCGCACACATTCGCA
25	121	GAGTCAGCATGGCGGCGGAGATTC
	122	AGATAAAGACGCTGGCAACACGGG
	123	GGTACCTCAACGCGAACCACTTGT
	124	AAGCGATGGCTACCCAAGAGCGAT
	125	AGAGCTTATGCAGAACCAGGCGCC
30	126	ATCGGTCTCACGCAGGGTTGGATA
	127	TAGGTTGCCCGCCAGAAGAACAT
	128	CGGTGCTGTTGCAAAAGCCTGTAG
	129	TGATGAAAGTTTGCGGCAGGACAC
	130	GTTGAGTGCAGGATGCAGCGATAG
35	131	AACATTGCGCGGTCCACCAGGGTT
	132	GGGCAGTTAGAGAGGGCCAGAAGT
	133	TCGAGCTGGTCCCCGTGAACGTGT
	134	GTCTTGGGGGCCGCTTAGTGAAAA
	135	ACTGTTGGCTTGCTCATGTCCA
40	136	AGGACCATTCGGAAGGCGAAGATA
	137	CTTGGGAGGCATCCGCTATAAGGA
	138	AATAAACGGAACGCACCGCTACAG

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149 CGAATATTATGCCGAGAATCCGCG 150 ACAGACGAGCTCCCAACCACATGA 151 GGACGGTTTGTGCTGGATTGTCTG 152 AAAGGCTATTGAGTTGGTTGGGCG 153 GATGGCCTATTCGGAGATCGGGCC 154 GATCCAGTAGGCAGCTTCATCCCA 155 AATAACTCGCGCGGGTATGCTTCT 156 GGAGGAGGTTTGTCTCGGAAAGCA 157 CTTTGGTATGGCACATGCTGCCCG			
141 ACCTGATCGTTCCCCTATTGGGAA 142 GGAACAGAGGCGAGGGACTGAGC 143 CCCTGCCTTGGCGTGTCGGCTTAT 144 ACTCTGACACGCCAACTCCGGAAG 145 CTGACGGTTTCATTCGGCGTGCC 146 TCGACGGTTTCATTGGAGCTGGCC 146 TCGACGGTTTCATTGGAGCTGGCC 147 GCATGGCCAACTAGTGACTCGCAA 148 AGGCCGTAAGAGGAATCCACCTG 149 CGAATATTATGCGCAGAATCCACGG 150 ACAGACGAGCTCCCAACCACATGA 151 GGACGGTTTGTGTGTGGATTGTCTG 152 AAAGGCTATTGAGTTGGTTGGTG 153 GATGGCCTATTCGAGATCGGCC 154 GATCCAGTAGACACATTCACCA 155 AATAACTCGCGGGGTATGTTCT 156 GGAGGAGGTTTGTCTCGAAAGCA 157 CTTTGGTATGGACACTTCATCCCA 158 AGAAAGGCTCGAACAGAGCACT 159 AATCTACCGCATGGACCC 158 AGAAAGGCTCGAACAGGGAACT 159 AATCTACCGCACTTGTCGAAGCA 160 CCTGGCGCACAGTTTTGAGGG 161 TTGCAGTTCAATCCATACCACGT 162 GGCCCAAAGCCCCAGACCATTTA 164 TGAGGCAACAGGGGCCAAAACT 165 AGCGAAAGCACCACTCACT 166 GCCCCAAGGCCCAAAACTA 165 AGCGGAAGTAGTCTCCGCAATT 166 GCCCCAAGGCCCAAAACTA 167 GCACGTGAACGGATTCCATACCACT 168 ACCGGAAAACATTACACACACTACACACACTACACACACA		139	TTGTACGTGCGGTCCCCATAAGCA
142 GGAACAGAGGCGAGGGACTGAGC 143 CCCTGCCTTGGCGTGTCGGCTTAT 144 ACTCTGACACGCCAACTCCGGAAG 145 CTGACGGTTTTCATTCGGCGTGCC 146 TGCGGTGGTTCATTTGGACTCGCCA 147 GCATGCCCAACTAGTGACTCGCAA 148 AGGCCGTAAAGCGAATCTCACCTG 149 CGAATATTATGCCGAGAATCCGCG 150 ACAGACGACCCCAACCACATGA 151 GGACGGTTTGGTTGGTTGGAGCC 152 AAAGGCTATTGACTTGGTTGGAGC 153 GATGGCCTATTGAGTTGGTTGGCG 154 GATCCASTAGGAGATCCGCG 155 AAAACTCGCGGGAAACCACATGA 156 GGAGGAGTTTTGATTGGTTGGTTGGTTG 157 GATGACTATTGAGTTGGTTGGCC 158 AATAACTCGCGGGGATAGCTTCT 156 GGAGGAGGTTTGTCTCGAAAGCA 157 CTTTGGTATGGCACATGCTGCCCG 158 AGAAAGGCTCGACAACGGAACCT 159 AATCACCGCACGTTTTGGAGG 160 CGTGGCGCCCAACGTTTTGGAGG 161 TGCAGTTCAATCCATACGCACGT 162 GGCCCAAAGCCCCAGACCATTTTA 25 163 CGCCTGTCTTTGTCTCGGACAACT 164 TGAGGCAACAGGGCCAAAACTA 165 AGCGGAACAGGGCCAAAACTA 166 GGCCCCAAGGCCAAAACTA 167 GCACGTGAACTCTTGGGTCGCC 168 AGCGGCAGAACGTTTCTTGACGG 169 TCGTCGAGACACGGGTTAACCCGA 170 TCTTTGCCAGGGGTTAACCCGA 171 TTTATGTGTGCTACACTGACTGCTT 171 TTTATGTGTGTTCACGGCAGTT 171 TTTATGTGTGCTACACTGACTGCTT 172 TGTTTACTGTGGTTAACCGACTT 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGACCTTTTATTG 175 CGCCCAGATTATACACCCGATTTC 176 CAACTACACCGCTGTAACTGACTGCTT 177 CCTTCGTGACTCGGTGTAACTGACTGTT 177 TCTTTGTCACGGCAGTTAACTCCAACTGCT 178 TGAACACGAGCAACACTTCCAACCGC 179 CAGCAGTTCAGAGCGTTAACTGACTGCTT 171 TTTATGTGTCATCAGCGCGTTAACTGATTGTT 171 TTTATGTGTGCTGAGACCCTTTTATTG 172 CCTTCGTGTGATCGGGTGATCGCGT 173 CCGCCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCCCCAACCTTTTATTG 175 CGCCCCAGGTTAACTGAGTGTT 176 CAACTAACCGCCTGAACTGAGTGTT 177 CCTTCGTGCATCGGGTGATCGCGT 178 TGAACACGAGCAACACTCCCAACCC 179 CAGCAGATCTTCGTGACGGTCCTTTCTTCTTTTTTCTTTTTTTT		140	CGCACCAAACTGAGTTTCCCAGAC
143 CCCTGCCTTGGCGTGCGGCTTAT 144		141	ACCTGATCGTTCCCCTATTGGGAA
144 ACTCTGACACGCCAACTCCGGAAG 145 CTGACGGTTTCATTCGGCGTGCC 146 TGCGGTGGTCATTTGAGCTGGCC 147 GCATGGCCAACTAGTGACTCGCAA 147 GCATGGCCAACTAGTGACTCGCCAA 148 AGGCCGTAAAGCGAATCTCACCTG 149 CGAATATTATGCCGAGAATCCGGC 150 ACAGACGAGCTCCCAACCACATGA 151 GGACGGTTGTGGTTGGTTGGTTGGTTGGTTGGTTGGTTGG		142	GGAACAGAGGCGAGGGGACTGAGC
145	5	143	CCCTGCCTTGGCGTGTCGGCTTAT
146 TGCGGTGGTTCATTGGAGCTGGCC 147 GCATGGCCAACTAGTGACTCGCAA 148 AGGCCGTAAAGCGAATCTCACCTG 149 CGAATATTATGCCGAGAATCCGCG 150 ACAGACGAGCTCCCAACCACATGA 151 GGACGGTTTGTGTGGATTGTCTG 152 AAAGGCTATTGAGTTGGTTGGGCG 154 GATCGATGAGCAGATCCCCA 155 GATGGCCTATTCAGCTGGCC 154 GATCCAGTAGACAGCAGCCCCAACCACACACACACACACA	[144	ACTCTGACACGCCAACTCCGGAAG
147 GCATGGCCAACTAGTGACTCGCAA 148 AGGCCGTAAAGCGAATCTCACCTG 149 CGAATATTATGCCGAGAATCCGCG 150 ACAGACGAGCTCCCAACCACATGA 151 GGACGGTTTGTGCTGGATTGTCTG 152 AAAGGCTATTGAGTTGTCTG 153 GATGGCCTATTCGGAGATCGGCC 154 GATCCAGTAGGCAGCTTCATCCCA 155 AATAACTCGGGCGGGTATGCTTCT 156 GGAGGAGGTTCTCTCCGAAAGCA 157 CTTTGGTATGGCACATGCTGCCG 158 AGAAAGGCTCGACCACAGGAACCA 157 CTTTGGTATGGCACATGCTGCCG 158 AGAAAGGCTCGACCAAGCGAACCT 159 AATCACCGCACTGGTCCGCAAGT 160 CGTGGCGGCCACAGTTTTTGAAGG 161 TTGCAGTTCAATCCATACGCACGT 162 GGCCCAAAGCCCCAGACCATTTTA 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGCTCCGCACAT 166 GGCCCCAAGGCTTCAGCGATGC 167 GCACGTGAAGTTAACCGCAGTTC 168 AGCGGCAGAAACTTTAACGCAGTTC 169 TCGTCGAGCAGAACATTCACGG 169 TCGTCGAGCAGAACATTCACGG 169 TCGTCGAGCAGAACATTCACGG 170 TCTTTGCCGCGTAACTGACTTTTTTTTTTTTTTTTTTTT		145	CTGACGGTTTTCATTCGGCGTGCC
148 AGGCCGTAAAGCGAATCTCACCTG 149		146	TGCGGTGGTTCATTGGAGCTGGCC
149	[147	GCATGGCCAACTAGTGACTCGCAA
150 ACAGACGAGCTCCCAACCACATGA 151 GGACGGTTTGTGCTGGATTGTCTG 152 AAAGGCTATTGAGTTGGTGGCG 153 GATGGCCTATTCGGAGATCGGGCC 154 GATCCAGTAGGCAGCTTCATCCCA 155 AATAACTCGCGCGGGTATGCTTCT 156 GGAGGAGGTTTGTCTCGGAAAGCA 157 CTTTGGTATGGACATGCTGCCG 158 AGAAAGGCTCGACCACGGGAACT 159 AATCTACCGCACAGTGCTCGCAAGT 150 CGTGGCGGCCACAGTTTTGGAGG 161 TTGCAGTTCAATCCATACGCACGT 162 GGCCCAAAGCCCCAGACATTTTA 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGTCCTCGGCTCGTC 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACCTGAAGTTCAACGCGATTC 168 AGCGGAAAACGTTCCTTGACGG 169 TCGTCGAGCAGAGAGTTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 173 CGCGCCTGCTAACAGCCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCT 177 CCTTCGTGCATCGGTGATGTTT 176 CAAATAACGCCGCTGAATCGCCC 177 CCTTCGTGCATCGGTGATGTTT 177 CCTTCGTGCATCGGTGATGTTT 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGTT 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGTT 177 CCTTCGTGCATCGGGTGATGATCTTCAACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTT 177 CCTTCGTGCATCGGGTGATGATCTTCAACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTTCCTAACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTTCCTAACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTTCCAACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTTCCTAACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTTCCTAACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTTCCTAACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTTCCTACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTTCCTACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTTCCTACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTCCTACCGC 179 CAGCAGATCCTTCGTAGCGGTCGTCCTACCGC 179 CAGCAGATCCTTCCGTAGCGGTCGTTCCTACCGC 179 CAGCAGATCCTTCCGTAGCGGTCGTTCCTACCGC 179 CAGCAGATCCTTCCGTAGCGGTCGTTCCTACCGC 179 CAGCAGATCCTTCCGTAGCGGTCGTCCTACCGC 179 CAGCAGATCCTTCCGTAGCGGTCGTCCTACCGCC 179 CAGCAGATCCTTCCGTAGCGGTCGTCCTACCGCC 179 CAGCAGATCCTTCCGTAGCGGTCGTCCTACCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTC	10	148	AGGCCGTAAAGCGAATCTCACCTG
151 GGACGGTTTGTGTGTGGTTGGCG 152		149	CGAATATTATGCCGAGAATCCGCG
152		150	ACAGACGAGCTCCCAACCACATGA
153 GATGGCCTATTCGGAGATCGGGCC 154 GATCCAGTAGGCAGCTTCATCCCA 155 AATAACTCGCGCGGGGTATGCTTCT 156 GGAGGAGGTTTGTCTCGGAAAGCA 157 CTTTGGTATGGCACATGCTGCCCG 20 158 AGAAAGGCTCGAGCAACGGGAACT 159 AATCTACCGCACTGGTCCGCAAGT 160 CGTGGCGGCCACAGTTTTTGGAGG 161 TTGCAGTTCAATCCATACGCACGT 162 GGCCCAAAGCCCCAGACCATTTTA 25 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGTCCTCGGCTCGTC. 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTTAACCGCGATTC 168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGACAGTTCCTTGACGG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGATCGATGTT 177 CCTTCGTGCATCGAGCGTCGT 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT	· [151	GGACGGTTTGTGCTGGATTGTCTG
154 GATCCAGTAGGCAGCTTCATCCCA 155 AATAACTCGCGCGGGGTATGCTTCT 156 GGAGGAGGTTTGTCTCGGAAAGCA 157 CTTTGGTATGGCACATGCTGCCGG 158 AGAAAGGCTCGAGCAACGGGAACT 159 AATCTACCGCACTGGTCCGCAAGT 160 CGTGGCGGCCACAGTTTTTGGAGG 161 TTGCAGTTCAATCCATACGCACGT 162 GGCCCAAAGCCCCAGACCATTTA 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGTCCTCGGCTCGTC 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTAACCGCGATTC 168 AGCGGCAGAACGTTCCTTGACGG 169 TCGTCGAGCAGACGTTCCTTGACGG 170 TCTTTGCCGCGTAACTGACTT 171 TTTATGTCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGACCTTTTATTG 175 CGCGCAGATTAACCGCATT 175 CGCGCAGATTAACCGCATT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT 170 CAGCAGATCCTTCGTAGCGTCGTAGTT 170		152	AAAGGCTATTGAGTTGGTTGGGCG
155	15	153	GATGGCCTATTCGGAGATCGGGCC
156 GGAGGAGGTTTGTCTCGGAAAGCA 157 CTTTGGTATGGCACATGCTGCCCG 158 AGAAAGGCTCGAGCAACGGGAACT 159 AATCTACCGCACTGGTCCGCAAGT 160 CGTGGCGGCCACAGTTTTTGGAGG 161 TTGCAGTTCAATCCATACGCACGT 162 GGCCCAAAGCCCCAGACCATTTTA 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGTCCTCGGCTCGTC 166 GGCCCCAAGGCTTAACGGACATTC 167 GCACGTGAAGTTTAACCGCGATTC 168 AGCGGCAGAACGTTCCTTGACGG 169 TCGTCGAGCAGACGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGCGT 177 CCTTCGTGCATCGACGCCT 177 CCTTCGTGCATCGACGCCT 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT 170		154	GATCCAGTAGGCAGCTTCATCCCA
157 CTTTGGTATGGCACATGCTGCCCG 158 AGAAAGGCTCGAGCAACGGGAACT 159 AATCTACCGCACTGGTCCGCAAGT 160 CGTGGCGGCCACAGTTTTTGGAGG 161 TTGCAGTTCAATCCATACGCACGT 162 GGCCCAAAGCCCCAGACCATTTTA 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAACTAGTCCTCGGCTCGTC 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTTAACCGCGATTC 30 168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGACGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		155	AATAACTCGCGCGGGTATGCTTCT
158		156	GGAGGAGGTTTGTCTCGGAAAGCA
159 AATCTACCGCACTGGTCCGCAAGT 160 CGTGGCGGCCACAGTTTTTGGAGG 161 TTGCAGTTCAATCCATACGCACGT 162 GGCCCAAAGCCCCAGACCATTTA 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGTCCTCGGCTCGTC 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTTAACCGCGATTC 30 168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		157	CTTTGGTATGGCACATGCTGCCCG
160 CGTGGCGGCCACAGTTTTTGGAGG 161 TTGCAGTTCAATCCATACGCACGT 162 GGCCCAAAGCCCCAGACCATTTTA 25 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGTCCTCGGCTCGTC 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTTAACCGCGATTC 30 168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGACGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT	20	158	AGAAAGGCTCGAGCAACGGGAACT
161 TTGCAGTTCAATCCATACGCACGT 162 GGCCCAAAGCCCCAGACCATTTTA 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGTCCTCGGCTCGTC 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTTAACCGCGATTC 30 168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGACGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGACCTTTTATTG 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		159	AATCTACCGCACTGGTCCGCAAGT
162 GGCCCAAAGCCCCAGACCATTTTA 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGTCCTCGGCTCGTC 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTTAACCGCGATTC 168 AGCGGCAGAACGTTCCTTGACGG 169 TCGTCGAGCAGACGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT	1	160	CGTGGCGGCCACAGTTTTTGGAGG
25 163 CGCCTGTCTTTGTCTCCGGACAAT 164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGTCCTCGGCTCGTC 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTTAACCGCGATTC 30 168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGAGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		161	TTGCAGTTCAATCCATACGCACGT
164 TGAGGCAACAGGGGCCAAAAACTA 165 AGCGGAAGTAGTCCTCGGCTCGTC. 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTTAACCGCGATTC 30 168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGACGAGATGCACG 170 TCTTTGCCGCGTAACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		162	GGCCCAAAGCCCCAGACCATTTTA
165 AGCGGAAGTAGTCCTCGGCTCGTC 166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTTAACCGCGATTC 30 168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGACGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT	25	163	CGCCTGTCTTTGTCTCCGGACAAT
166 GGCCCCAAGGCTTAGAGATAGTGG 167 GCACGTGAAGTTTAACCGCGATTC 30 168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGACGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		164	TGAGGCAACAGGGGCCAAAAACTA
167 GCACGTGAAGTTTAACCGCGATTC 168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGACGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		165	AGCGGAAGTAGTCCTCGGCTCGTC.
168 AGCGGCAGAAACGTTCCTTGACGG 169 TCGTCGAGCAGACGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		166	GGCCCCAAGGCTTAGAGATAGTGG
169 TCGTCGAGCAGACGAGATTGCACG 170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		167	GCACGTGAAGTTTAACCGCGATTC
170 TCTTTGCCGCGTAACTGACTGCTT 171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT	30	168	AGCGGCAGAAACGTTCCTTGACGG
171 TTTATGTGCCAAGGGGTTAACCGA 172 TGTTACTGTGGTTCACGGCAGTCC 35 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		169	TCGTCGAGCAGACGAGATTGCACG
172 TGTTACTGTGGTTCACGGCAGTCC 173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		170	TCTTTGCCGCGTAACTGACTGCTT
173 CGCGCCTCGCTAGACCTTTTATTG 174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		171	TTTATGTGCCAAGGGGTTAACCGA
174 ACAAATGCGTGAGAGCTCCCAACT 175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		172	TGTTACTGTGGTTCACGGCAGTCC
175 CGCGCAGATTATAGACCCGAATGT 176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT	35	173	CGCGCCTCGCTAGACCTTTTATTG
176 CAAATAACGCCGCTGAATCGGCGT 177 CCTTCGTGCATCGGTGATGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		174	ACAAATGCGTGAGAGCTCCCAACT
177 CCTTCGTGCATCGGTGATGTT 40 178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT		175	CGCGCAGATTATAGACCCGAATGT
178 TGAACACGAGCAACACTCCAACGC 179 CAGCAGATCCTTCGTAGCGGTCGT	Į.	176	CAAATAACGCCGCTGAATCGGCGT
179 CAGCAGATCCTTCGTAGCGGTCGT	į	177	CCTTCGTGCATCGGTGATGATGTT
	40	178	TGAACACGAGCAACACTCCAACGC
180 GGAACCTGGTGAGTTGTGCCTCAT		179	CAGCAGATCCTTCGTAGCGGTCGT
		180	GGAACCTGGTGAGTTGTGCCTCAT

ſ	181	TCATAAGCGACAATCGCGGGCTTA
Ţ	182	CCCAACGTCACTGAAGCTCACAGT
Ţ	183	TGTCAGAGCCCGCGACTCAGACGG
5	184	TACACGAAGCCTCTCCGTGGTCCA
5	185	CTCAGAAGTCCTCGGCGAACTGGG
Ţ	186	ATCCTTTTATCTACTCCGCGGCGA
	187	AGGCGTGCAGCAACAGGATAAACC
ſ	188	ACTCTCGAGGGAGTCTCTGGCACA
Ī	189	TTGCCAGGTCCATCGAGACCTGTT
10	190	TCCACTATAACTGCGGGTCCGTGT
[191	GCCCAGTCGGCTCTAACAAGTTCG
	192	CGGAACGGATAATCGGCGTCAGGT
[193	TAAAATAAGCGCCTGGCGGAGGA
	194	GCGCACTCGTGAAACCTTTCTCGC
15	195	AGTTTGCCAGGTACTGGCAAGTGC
	196	ACAACGAGGGATGTCCAGCGGCAT
	197	TTCGCAGCACCCGCTAGGTACAGT
	198	TAACCCGATTTTTGCGACTCTGCC
[199	CGTCGCATTGCAAGCGTAGGCTTG
20	200	GAGCTGACGTCACCATCAGAGGAA
	201	GGAGGCTGGGGTCGCGCTTAAGT
	202	TTGTGGGAACCGCACTAGCTGGCT
ļ	203	CCCTCGCACTGTTTCACCCTCTT
	204	TCATTGACTCGAATCCGCACAACG
25	205 .	ACAGGGGTTGGCCTTCGTACGTAC
	206	AGGCCGTGCAACATCACACAGGAT
·	207	GGGCCGTGGTCACGTAATATTGGC
	208	GCGCGGACATGAAACGACAAGGCC
	209	CTTATTGGGTGCCGGTGTCGGATT
30	210	GGGGCGGTTACCAAAAAATCCGAT
	211	GCTAAAGCGTGCTCCGTAACTGCC
	212	ATCTCATGCATCTCCCCATCCCCT
	213	ACGAAAAAAGTGTGCGGATCCCCT
25	214	CCAAGTACACCGCACGCATGTTA
35	215	ATCGTGCGTGGAGTGTCGCATCTA
	216	TCCAGATACCGCCCGAACTTTGA
	217	TCTGCTGGCAGCACGTGAAGTGGC
	218	TTGAAATTGCTCTGCCGTCAGTCA
40	219	AGTCAGGCGAGGTTAAGCCGGCGA
40	220	ACAAGCCGACGTTAAGCCCGCCCA
	221	CCCTAATGAGGCCAGTAACCTGCA
	222	GTGAGACACACCCCCCCCAATG

Γ	223	CGACGGATGCAGAGTTCAGTGGTC
Γ	224	CCCGCATGCCTGGCGGTATTACAA
ſ	225	TTAGCAAAGCGGCGCCGTTAGCAA
	226	CCCGACACGGGTCAGCGTAATAAT
5	227	GCGACGCCCTGAGGTATGTCGTC
	228	CAAAAGTGTGTTCCCTTGCGCTTG
	229	TCTCGAAGCACAGCCCGGTTATTG
	230	ATGCTAACCGTTGGCCATGGAACT
Ī	231	CTTGCGGAGTGTTAGCCCAGCGGT
10	232	TGCTCCCTAGGCGCTCGGAGGAGT
	233	CCAATGCCTTTGAGTAAGCGATGG
	234	AGCAGATAACGTCCCAATGACGCC
	235	TTGACCATTACGTGTTGCGCCCAT
	236	TCGCGTATTTGCGGAATTCGTCTG
15	237	CTGCGTGTCAACAATGTCCCGCAG
	238	TCTGGTGCCACGCAAGGTCCACAG
	239	CTCCGGGAGGTCACTTAATTGCGG
	240	TTTTCGTGATTGCCCGGAGGAGGC
	241	TCGGGATGTAGCTGGGGCTACCGG
20	242	CGAGCCAACGCAAACACGTCCTTG
	243	GCAAAGCCTTTGTGGGGCGGTAGT
	244	ATTCGACCGGAAATGAGGTCTTCG
	245	TTCGCTTGCTGAGTTGCTCTGTTC
	246	CGCGTGAAGACCCCATTCCCGAGT
25	247	AACCGTATTCGCGGTCACTTGTGG
	248	GGGGCCAACCGTTTCGAGGCGTAT
	249	TTCGGCTGGCAGTCCAAACGGCTT
	250	GGGTGTGGTTAGAATGCACGGTTC
	251	GCGAGGACCGAACTAGACAAACGG
30	252	ACGCACGCGTGACCGAAGTTGCTG
	253	TAAAAGGTCGCTTTGAAAGGGGGA
	254	TGCGATCGCTAACTGCTGGGACAA
	255	GGAGGTATAAGCGGAGCGGCCTCA
	256	ATGCTGACATGTCGTGCACCTCGT
35	257	TGTGGTTAAAGCGTCCGTTCAACG
	258	CGTTCACACCGGCGTAAGCTGCGT
	259	CCTATCCCGGCGAGAACTTCTGTG
	260	GTCTGCACTCACGCAGCGGAGGGA
	261	GCACGAGTTGGTGCTCGGCAGATT
40	262	AACGTCGCACGACACGTTCGTC
	263	ATGCGCGCTTATCCTAGCATGGTC
	264	TCACGTTTTCGTCTCGACATGAGG

[265	TGTGCCTCATCCTTAGGATACGGC
Ţ	266	AGGTGGTGGGTCAACCGCTTTA
	267	CTGGATCGAAGGGACTGCAAGCTC
	268	TAGATCAACTCGCGTACGCATGGA
5	269	GATCCTGCGGAGAAGAGAGTGCAG
	270	TACGTGTGGAGATGCCCCGAACCG
	271	GCGCTATGTCAATCGTGGGCGTAG
	272	AGCGAGGTTTCTAGCGTCGACACC
	273	CGATGAAGACAGGTTTGCTGTTGC
10	274	ACCCAGGTTTTGCCGTTGTGGAAT
	275	CCCTGTTAACGGCTGCGTAGTCTC
	276	AGGCCGATTTCACCCGCCAATTGC
	277	GAGCCCTCACTCCTTGCCCTTTGA
	278	GGGTGGACATCCGCCTCGCAGTCA
15	279	GATGGCTGAGAACCGTGCTACGAT
	280	TCGACGTTAGGAGTGCTGCCAGAA
	281	CGAATGGGTCTGGACCTTGCATAG
Ì	282	GTGCACCAGACATTCGAACTCGGA
	283	AGAGGCCCGTATATCCCATCCAT
20	284	AACGCCTGTTCAGAGCATCAGCGG
	285	AAGGCTCAACACGCCTATGTGCGC
	286	AGTCCGTGTTGCCAGATTGGCTCG
	287	ATGTCCCATGTAAAGACGCGTGTG
	288	ATGGAGTCTGCTCACGCCCAAAGG
25	289	CGGCCTCCAACAAGGAGCACTAAC
	290	CAGAGCCGTGGCAACATTGCGAGC
	291	TCATTTGAATGAGGTGCGCACCGG
	292	GACGTACCGGAAGCGCCGTATAAA
	293	ATGCGAGCAATGGGATCCGGATTC
30	294	AGAGTGAGGCCTCCCTGACCAGTG
!	295	CGCACCGTAAGTAGATTTGCCCGC
	296	AGGGTATCGGAGCCAGGGCTTACC
	297	TGAACCTTTGAGCACGTCGTGCGC
	298	TCCGCCTTTTTGGTTACCTCGAAG
35	299	GAACGCCAACGGCACTAACACATC
	300	CCGACAGCCAAGACGTCCCAG
	301	TTGTACACCTGGGCCACGCACAGG
	302	CATAAAAAACCTGGGGCTCTGCG
	303	TGCCAACTGTGCAGACCGGACTTA
40	304	GGCGAAAGAGCGAAACCGGCTCGT
	305	GGGATGCGTATTTTAGCGAACACG
	306	TGGGATTCAGCGACCAGTACGCGA

307	_		
309 AACCTTGACCCGTGGATGACGCTA 310 GGCTAGACGATGGATACCCGTGCC 311 GCCTCTTCTCGACGATGCGATTIT 312 GCTTCCGGATGACGGATGGTTG 313 CCCTCCATGTTCTTCGACACGGTTG 314 TTGATGGGGGCAATGCTCTTGCT 315 ATTGTGAGATGCCCAAATTCCCC 316 TCAGCACAGCCAGACGGTCAACTT 317 ACTCCACTCCTCGGTGCCAAACTA 318 TCTGGCATCCCTCGGTGCAAACTA 319 TCTCAACTCCGGTACGACAACA 320 TTGCGTGTCAAAGGCGCAACGT 321 AGACAGCGATCCGGGGAAACA 322 CGGGTCTCTAACTTCAGACACACCA 323 AGGCGCACATTCAGGACACCCA 324 GATGAGTGGCACGTCAGACGACATTCAG 324 GATGAGTGGCACGTCGGTGTTAA 325 TGATCCATATTGTCGGACGTTGCG 326 ACCTGCCGGGAGTTCAGG 327 AGCATTGCGTTTTCCGCAACGA 328 GGTAATATTCAGCGCGACCGCTCA 329 ATAGCGTACGACGAACGA 329 ATAGCGTACGACGAACGACGC 330 GGGTGAGGAGAAGCACCTGCCT 331 TAGGTCACGATGCGTTTGACCGC 332 ACTGCCGTACCTTGGTTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAACTTGAGCTG 335 GTGCCCACGAGCTTTCTGC 336 AGGCGCTACCTTGGTTCTGAC 337 GGGTGACGATTGCGTTGA 338 ACCACGCGGTACCTTGTTC 339 CCATGATGGGTTACTTGGTCG 330 GGTGCCCCACGAGCGTATCGTTTTA 331 AGGCCCACATGCGTTTTTCCGCAACGA 332 ACTGCCCTTAGATTGCTTGAC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAACTTTGCTTGC 335 GTGCCCCACGAGCGTACTGTTTTA 340 GGTCCGCCCTACGAACGTTCCG 336 AGGCGCTACCTTGGATTAGTCCG 337 GGTTCACCATTGCATTAGTCCG 338 ACCACGCGCTACCTTGATTTAGCCG 339 CCATGATGGGTTCGATTTAG 340 GGTCCGGCCTACGAATGCATTGCATTAG 341 CCGTGTGGCTGAAGATTCCGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGTCCACCCACCACCACTACGATTCCACT 344 CCGTGTGGCTTAAGGATCCACATTCAGGTT 345 GCCACCACCCCAGTGCATTCAGGTC 346 GCCACCACCCCAGTGCATTCAGGATC 347 TGTTTGCCGCCATTAGGGGCCCCATTCAGGCCCCATTCAGGATCCATTCAGGCCCCATTCAGGATCCATTCAGGCCCCATTCAGGCCCCCATTCAGGATCCATTCAGGCCCCATTCAGGCCCCATTCAGGCCCCATTCAGGCCCCATTCAGGCCCCATTCAGGCCCCATTCAGGATCCAATTCAGGCCCCATTCAGGATCCAATTCAGGCCCCATTCAGGCCCCATTCAGGATCCAATTCAGGCCCCATTCAGGATCCAATTCAGGCCCCATTCAGGATCCAATTCAGGCCCCATTCAGG		307	CCCGATATTCGCCCGGCCTATTCG
310 GGCTAGACGATGGATACCCGTGCC		308	CGAGAAGATGCCTCACGCAACCAA
5 311 GCCTCTTCTCGACGATGCATTTT 312 GCTTCCGATGAACGGATGTTG 313 CCCTCCATGTTCTTCGAACGGTTT 314 TTGATGGCGCAAATGCTCTTGCT 315 ATTGTGAGATGCGCCAAATTCCCC 316 TCAGCACAGCCAGACGGTCAACTT 317 ACTCCACTCCTCGGTGGCAAACTA 318 TCTGGGCATGCCTGGACGAACACA 319 TCTCAACTCCGGTACGACGAAACA 320 TTGCGTGGTCAAAGGCGCAACGTG 321 AGACAGCGATCCGCGGCTCATGAT 322 CGGGTCTCTAACGCAGCACATGAT 322 CGGGTCTCTAACTGAGACAGCCA 323 AGGCGAACATGACGGACATTCAG 324 GATGAGTGGCACGTCGGTGTGAA 325 TGATCCATATTGTCGGACGTTGCG 326 ACCTGCCGGGAGTTCATAGGCTAG 327 AGCATTGGCGGACTCGCTCA 328 GGTAATATTTCAGCGCAACGA 329 ATAGCGTACGACGAGGTGACCCTGCCT 330 GGGTGAGGGAAAGAACACTTGCCT 25 331 TAAGGTACCATGGGTTTAGCCTA 332 ACTGCCCTAACATTGGTTTCGTAC 333 CCATTTGGCTTAACTTTGCTTGTA 334 CCTTTTGG		309	AACCTTGACCCGTGGATGACGCTA
312 GCTTCCGGATGAACGGGATGGTTG		310	GGCTAGACGATGGATACCCGTGCC
313 CCCTCCATGTTCTTCGAACGGTTT 314	5	311	GCCTCTTCTCGACGATGCGATTTT
314 TTGATGGGCGCAATGCTCTTGCT 315 ATTGTGAGATGCGCCAAATTCCCC 316 TCAGCACAGCCAGACGGTCAACTT 317 ACTCCACTCCTGGTGGCAAACTA 318 TCTGGGCATGCCTGGACGGAGACG 319 TCTCAACTCCGGTACGACAACACA 320 TTGCGTGCTAAAGCGCAAACACA 321 AGACAGGGATCCGGGGCCAACGTG 321 AGACAGGGATCCGGGGCCAACGTG 322 CGCGTCTCTAACTGAGAGCAGCA 323 AGGCGCACATGTACGGACGATCAG 324 GATGAGTGGCACGTCGGTGTAAA 325 TGATCCATATTGTCGGACGTTCAG 324 GATGAGTGGCACGTCGGTGTAAA 325 TGATCCATATTGTCGGACGTTGCG 326 ACCTGCCGGAGTTCATAGGCTAG 327 AGCATTGGCGTTTATAGGCTAG 328 GGTAATATTCAGCGCGACCGCTCA 329 ATAGCGTACGACGAGGTGACGCG 330 GGGTGAGGGAAAGAGCACCTGCCT 331 TAGGTCACGATGGGTTGACGCT 332 ACTGCCCGTACCTCTGGTTTGCGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAACATTGGCTG 335 GTGCCCCACGAGCGTATCGTTGA 336 AGGCGCTACGTTGCATAGC 337 GGGTCACCATGGGTGACCAG 339 CCATGATGCATTGCATAGC 339 CCATGATGCATTGCATAGC 330 GGGTCACCATGGGTGACCAGA 330 GGGTCACCATGGGTGACCAGA 337 GGGTCACCATGGGTGACCAGA 336 AGCCCCCACGAGCGTATCGTTGA 337 GGGTCACCATGGGTGAACATTGCATAGC 338 ACCACGCGCGTACCGTTGAACAGAG 339 CCATGATGCATTGCATTAGCCAA 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGACATTTGCATTAGC 342 GTTAGGGCGCCATATTGGCACA 343 GGGTCAGTCAGAGATTCGTATGA 344 GCCGTGAAGTCGAATTGGCACA 345 GCCACCACCCAGTGCGTTAGGATC 344 GCCGTGAAGTCGAATCGAATCGAATCGAATCGAATCGAA		312	GCTTCCGGATGAACGGGATGGTTG
315 ATTGTGAGATGCGCCAAATTCCCC		313	CCCTCCATGTTCTTCGAACGGTTT
10 316 TCAGCACAGCCAGACGGTCAACTT 317 ACTCCACTCCTCGGTGGCAAACTA 318 TCTGGGCATGCCTGGACGGAGACG 319 TCTCAACTCCGGTACGACGAAACA 320 TTGCGTGGTCAAAGGCGAAACA 321 AGACAGCGATCCGCGGCTCATGAT 322 CGCGTCTCTAACTGAGACGACGCA 323 AGGCGCACATGTACAGCAGCA 324 GATGAGTGGCACGTCGGTGTGAA 325 TGATCCATATTGTCGGACGTTCAG 326 ACCTGCCGGGAGTTCATGAG 327 AGCATTGGCGTTCTAAGGCAGCA 328 GGTAATATTCAGCGCGACCTCA 329 ATAGCGTACGACGACGCA 329 ATAGCGTACGACGACGCC 330 GGGTGAGGAAAAGAGCACCTGCCT 331 TAGGTCACGATGCGTTTGACCGCA 332 ACTGCCCGTACCTTGGTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAACTTGGTCGTAA 335 GTGCCCCACGAGCGTATCGTTGTA 336 AGCGCTACCTTGGTTCTGAC 337 GGGTGCACCATTGCATTAGCCGAACACACACACACACACA		314	TTGATGGGCGGCAATGCTCTTGCT
317 ACTCCACTCCTGGTGGCAAACTA 318 TCTGGGCATGCCTGGACGGAGACG 319 TCTCAACTCCGGTACGACGAAACA 320 TTGCGTGGTCAAAGGCGCAACCA 321 AGACAGCGATCCGCGGCTCATGAT 322 CGCGTCTAACTGAGAGCAACCA 323 AGGCGCACATGTACGACGACACCA 324 GATGAGTGCACGACGTTCAG 324 GATGAGTGCACGTCGGTGTAAA 325 TGATCCATATTGTCGGACGTTCAG 326 ACCTGCCGGGAGTTCATAGGCTAG 327 AGCATTGGCGTTTTTCCGCAACGA 328 GGTAATATTCAGCGCGACCGTCA 329 ATAGCGTACGACGACGCCGCCCA 329 ATAGCGTACGACGACGCCCCCCC 330 GGGTGAGGGAAAGAGCACCTGCCT 331 TAGGTCACGATGCGTTTGACGCTA 332 ACTGCCCGTACCTTCTGTTCTGCC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAACTTTGGTAGC 335 GTGCCCCACGAGCGTATCGTTGTA 336 AGCCCCTACCATGCGTTGTA 337 GGGTCACCATGCATTGCTTGTA 338 ACCACGCGCGTACCATTGCATTAGCC 338 ACCACGCGCGTACCATTGCATTAGCCGAG 339 CCATGATGCATTGCATTAGCCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGAGAATTCGGACA 342 GTTAGGGCGACGCATATTGGACA 343 GGGTCAGTCGAACATTCAAGATCCAACATTCGAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACATTCAACAA		315	ATTGTGAGATGCGCCAAATTCCCC
318 TCTGGGCATGCCTGGACGAGACG	10	316	TCAGCACAGCCAGACGGTCAACTT
319 TCTCAACTCCGGTACGACGAAACA 320 TTGCGTGGTCAAAGGCGCAACGTG 321 AGACAGCGATCCGCGGCTCATGAT 322 CGCGTCTCTAACTGAGAGCAGCCA 323 AGGCGCACATGTACGGACATTCAG 324 GATGAGTGGCACGTCGGTGTGTAA 325 TGATCCATATTGTCGGACGTTGCG 326 ACCTGCCGGGAGTTCATAGGCTAG 327 AGCATTGCGGAGTTTCATAGGCTAG 328 GGTAATATTCAGCCGACCGCCCA 329 ATAGCGTACGACGGTGGACGCCC 330 GGGTCAGGAGGGAAAGGCACCTGCCT 331 TAGGTCACGATGCGTTTGACGCT 332 ACTGCCCGTACCTCTGGTTCTGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAAGTTGTCGTAG 335 GTGCCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTGGGCCTGAGCAA 337 GGGTGACCATTGCATTAGCC 338 ACCACGCGGTACGTTAACCGAG 339 CCATGATGCATTGGATTAACCGAG 339 CCATGATGCATTGGATTAACCGAG 339 CCATGATGCATTGGTTCAACCGAG 339 CCATGATGCATTGGTTCAACCGAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGGGCTGAGAATCGTTGGA 342 GTTAGGGCGAACCATTTGGCACA 343 GGGTCAGTCAGGTGCGTTAAGGAT 344 GCCGTGAAGTCGAATCCGAT 345 GCCACCACCCAGTGCATTCAGGTA 346 GAGCTTAGTTTGCCGCCATTCAGGTA 347 TGTTTGCCGCCATTAGGGAGTAACC		317	ACTCCACTCCTCGGTGGCAAACTA
320		318	TCTGGGCATGCCTGGACGGAGACG
15		319	TCTCAACTCCGGTACGACGAAACA
322 CGCGTCTTAACTGAGAGCAGCA 323 AGGCGCACATGTACGGACATTCAG 324 GATGAGTGGCACGTCGGTGTGTAA 325 TGATCCATATTGTCGGACGTTGCG 326 ACCTGCCGGGAGTTCATAGGCTAG 327 AGCATTGGCGTTTTTCCGCAACGA 328 GGTAATATTCAGCGCGACCGCTCA 329 ATAGCGTACGACGAGGTGACGCC 330 GGGTCAGGACGAGCACCGCTC 331 TAGGTCACGATGCGTTTTGACGCTA 322 ACTGCCCGTACCTTCTGGTCTCGC 333 CAAAAATCGGGTGAACATTGGCTA 334 CCTTTGGCCTGAACTTGTAGC 335 GTGCCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTTGGTACC 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACCTTGAACCGAG 339 CCATGATGCATTGGCTGAACCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATCCTGGA 342 GTTAGGGCGACGCATATTGCACA 343 GGGTCAGTCAGGAGATCCGAG 344 GCCGTGAAGTCGATCGAGAACCGTCGA 345 GCCACCACCAGTGCATTCAGGTA 346 GAGCTTAGTTTGCGGTCATCAGGTA 347 TGTTTGCCGCCATTAGGAGAACC		320	TTGCGTGGTCAAAGGCGCAACGTG
323 AGGCGCACATGTACGGACATTCAG 324 GATGAGTGGCACGTCGGTGTGTAA 325 TGATCCATATTGTCGGACGTTGCG 326 ACCTGCCGGGAGTTCATAGGCTAG 327 AGCATTGGCGTTTTTCCGCAACGA 328 GGTAATATTCAGCGCGACCGCTCA 329 ATAGCGTACGACGAGGTGACGCGC 330 GGGTGAGGGAAAGAGCACCTGCCT 331 TAGGTCACGATGCGTTTGACGCTA 332 ACTGCCCGTACCTCTGGTTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAAGTTGTCGTAGC 335 GTGCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTGGGCCTGAACAT 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGGTACGTGTAACCGAG 339 CCATGATGCATTAGTCCG 339 CCATGATGCATTGGGTGACATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCATTAGGATC 344 GCCGTGAAGTCGATTCAGATC 345 GCCACCACCCAGTGCATTCAGGTA 346 GAGCTTAGTTTGCGGTCATTCAGGTA 347 TGTTTGCCGCCATTAGGGAGTAACC 347 TGTTTGCCGCCATTAGGGAGTAAC	15	321	AGACAGCGATCCGCGGCTCATGAT
324 GATGAGTGGCACGTCGGTGTAA 325 TGATCCATATTGTCGGACGTTGCG 326 ACCTGCCGGGAGTTCATAGGCTAG 327 AGCATTGGCGTTTTTCCGCAACGA 328 GGTAATATCAGCGCACCGCTCA 329 ATAGCGTACGACGAGGTGACGCCC 330 GGGTGAGGGACACCCCCT 25 331 TAGGTCACGATGAGTTGACGCTA 332 ACTGCCCGTACCTCTGGTTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAACATTGGCTG 335 GTGCCCACGAGCGTATCGTTTAA 30 336 AGGCGTACGTGGACATTGTAA 337 GGGTGCCCACGAGCGTAACATTGCC 338 ACCACGCGCTACCTTGGATTAACCGAG 339 CCATGATGCATTGACTTAACCGAG 339 CCATGATGCATTGGGTGAATTTAAC 340 GGTCCGGCCCTACGAACACGTTCGA 341 CCGTGTGGCTGGAGATTCGTTGA 342 GTTAGGGCGACGATTCGTTGA 343 GGGTCAGTCAGAAACGTTCGA 344 GCCGTGAAGTCGATAGGACCA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGCC 347 TGTTTGCCGCCATTAGGGAGTAAC		322	CGCGTCTCTAACTGAGAGCAGCCA
325 TGATCCATATTGTCGGACGTTGCG 326 ACCTGCCGGGAGTTCATAGGCTAG 327 AGCATTGGCGTTTTTCCGCAACGA 328 GGTAATATTCAGCGCGACCGCTCA 329 ATAGCGTACGACGAGGTGACGCGC 330 GGGTGAGGGGACACCGCTC 331 TAGGTCACGATGCGTTTGACGCTA 332 ACTGCCCGTACCTCTGGTTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCTGAAGTTGTCGTAGC 335 GTGCCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTGGGCCTGGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGAACATTGACCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCATTAGGATC 344 GCCGTGAAGTCGAATGCAGATC 345 GCCACCACCCAGTGCATTCAGGTA 346 GAGCTTAGTTTGCGGCC 347 TGTTTGCCGCCATTAGGGAGTAAC		323	AGGCGCACATGTACGGACATTCAG
326 ACCTGCCGGGAGTTCATAGGCTAG 327 AGCATTGGCGTTTTTCCGCAACGA 328 GGTAATATTCAGCGCGACCGCTCA 329 ATAGCGTACGACGACGGCGC 330 GGGTGAGGGAAAGACACCTGCCT 331 TAGGTCACGATGCGTTTGACGCTA 332 ACTGCCGTACCTCTGGTTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAAGTTGTCGTAGC 335 GTGCCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTGGGCCTGGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGTAACCGAG 339 CCATGATGCATTGCATTAGTCCG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCATTAGGATC 344 GCCGTGAAGTCGAATCCGAC 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCAGGC 347 TGTTTGCCGCCATTAGGGAGTAACC 347 TGTTTGCCGCCATTAGGGAGTAACC 347 TGTTTGCCGCCATTAGGGAGTAACC 347 TGTTTGCCGCCATTAGGGAGTAACC 347 TGTTTGCCGCCATTAGGGAGTAACC 348 GAGCTTAGTTTGCGGAGTAACC 349 GCGCCCCATTAGGGAGTAACC 340 GAGCTTAGTTTGCGGAGTAACC 341 GCGTGAAGTTCAGGTA 342 GTTAGGGGAGTAACC 343 GCACCACCCAGTGCATTCAGGTA 344 GCGTGAAGTTGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 346 GAGCTTAGTTTGCGGTCATCAGGACC 347 TGTTTGCCGCCATTAGGGAGTAACC 347 TGTTTGCCGCCATTAGGGAGTTAACC 348 GAGCTTAGTTTGCGGATAACC 349 TGTTTGCCGCCATTAGGGAGTTAACC 340 TGTTTGCCGCCATTAGGGAGTTAACC 341 TGTTTGCCGCCATTAGGGAGTTAACC 342 TGTTTGCCGCCATTAGGGAGTTAACC 344 TGTTTGCCGCCATTAGGGAGTTAACC 345 TGTTTGCCGCCATTAGGGAGTTAACC 346 TGTTTGCCGCCATTAGGGAGTTAACC 347 TGTTTGCCGCCATTAGGGAGTTAACC 348 TGTTTGCCGCCATTAGGGAGTTAACC 349 TGTTTGCCGCCATTAGGGAGTTAACC 340 TGTTTGCCGCCATTAGGGAGTTAACC 341 TGTTTGCCGCCATTAGGGAGTTAACC 342 TGTTTTGCCGCCATTAGGGAGTTAACC 344 TGTTTTGCCGCCATTAGGGAGTTAACC 345 TGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT		324	GATGAGTGGCACGTCGGTGTGTAA
327 AGCATTGGCGTTTTTCCGCAACGA 328 GGTAATATTCAGCGCGACCGCTCA 329 ATAGCGTACGACGACGGCGC 330 GGGTGAGGGAAAGAGCACCTGCCT 331 TAGGTCACGATGCGTTTGACCGTA 332 ACTGCCCGTACCTCTGGTTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAAGTTGTCGTAGC 335 GTGCCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTGGGCCTGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACCGTGAGCAA 339 CCATGATGCATTAGCCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCATTAGGATC 344 GCCGTGAAGTCGAATCGAATCGA 345 GCCACCACCCAGTGCATTCAGGTA 346 GAGCTTAGTTTGCGGTCATCAGGTA 346 GAGCTTAGTTTGCGGTCATCGGGC 347 TGTTTGCCGCCATTAGGGAGAACC		325	TGATCCATATTGTCGGACGTTGCG
328 GGTAATATTCAGCGCGACCGCTCA 329	20	326	ACCTGCCGGGAGTTCATAGGCTAG
329 ATAGCGTACGACGAGGTGACGCGC 330 GGGTGAGGGAAAGAGCACCTGCCT 331 TAGGTCACGATGCGTTTGACGCTA 332 ACTGCCCGTACCTCTGGTTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAAGTTGTCGTAGC 335 GTGCCCCACGAGCGTATCGTTGTA 30 336 AGGCGCTACGTGGGCCTGGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGTAACCGAG 339 CCATGATGCATTGGATTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGAACGTTCGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCACCA 344 GCCGTGAAGTCGAATCCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGTCATCAGCCC 347 TGTTTGCCGCCATTAGGGAGTAAC		327	AGCATTGGCGTTTTTCCGCAACGA
330 GGGTGAGGGAAAGAGCACCTGCCT 331 TAGGTCACGATGCGTTTGACGCTA 332 ACTGCCCGTACCTCTGGTTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAAGTTGTCGTAGC 335 GTGCCCCACGAGCGTATCGTTGTA 30 336 AGGCGCTACGTGGGCCTGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGTAACCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGA 342 GTTAGGGCGAGCATATTGGCACA 343 GGGTCAGTCAGGTGCATTAGGATC 344 GCCGTGAAGTCGAATGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCAGGCC 347 TGTTTGCCGCCATTAGGGAGTAAC		328	GGTAATATTCAGCGCGACCGCTCA
25 331 TAGGTCACGATGCGTTTGACGCTA 332 ACTGCCCGTACCTCTGGTTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG., 334 CCTTTGGCCTGAAGTTGTCGTAGC 335 GTGCCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTGGGCCTGGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGTAACCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATCGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCATTAGGATC 344 GCCGTGAAGTCGAATGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGCC 347 TGTTTGCCGCCATTAGGAGATCC		329	ATAGCGTACGACGAGGTGACGCGC
332 ACTGCCGTACCTCTGGTTCTGGC 333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAAGTTGTCGTAGC 335 GTGCCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTGGGCCTGGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGAACCGAG 339 CCATGATGCATTGGGTGCATTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATCGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCACCA 344 GCCGTGAAGTCGAATCCAC 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGCC 347 TGTTTGCCGCCATTAGGGAGTAAC		330	GGGTGAGGGAAAGAGCACCTGCCT
333 CAAAAATCGGGTGAACATTGGCTG 334 CCTTTGGCCTGAAGTTGTCGTAGC 335 GTGCCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTGGGCCTGGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGTAACCGAG 339 CCATGATGCATTGGGTGCATTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCATTAGGATC 344 GCCGTGAAGTCGAATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGGC 347 TGTTTGCCGCCATTAGGGAGTAAC	25	331	TAGGTCACGATGCGTTTGACGCTA
334 CCTTTGGCCTGAAGTTGTCGTAGC 335 GTGCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTGGGCCTGGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGTAACCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCATTAGGATC 344 GCCGTGAAGTCGAATGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGCC 347 TGTTTGCCGCCATTAGGGAGTAAC		332	ACTGCCCGTACCTCTGGTTCTGGC
335 GTGCCCACGAGCGTATCGTTGTA 336 AGGCGCTACGTGGGCCTGGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGTAACCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGTA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCGTTAGGATC 344 GCCGTGAAGTCGAATGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGCC 347 TGTTTGCCGCCATTAGGGAGTAAC		333	CAAAAATCGGGTGAACATTGGCTG
336 AGGCGCTACGTGGGCCTGGAGCAA 337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGTAACCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGTA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCGTTAGGATC 344 GCCGTGAAGTCGAATGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGGC 347 TGTTTGCCGCCATTAGGGAGTAAC		334	CCTTTGGCCTGAAGTTGTCGTAGC
337 GGGTGCTACCATTGCATTAGTCCG 338 ACCACGCGCGTACGTGTAACCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGAGAATCGTGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCGTTAGGATC 344 GCCGTGAAGTCGAATGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGCC 347 TGTTTGCCGCCATTAGGGAGTAAC		335	GTGCCCACGAGCGTATCGTTGTA
338 ACCACGCGCGTACGTGTAACCGAG 339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCGTTAGGATC 344 GCCGTGAAGTCGAATGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGCC 347 TGTTTGCCGCCATTAGGGAGTAAC	30	336	AGGCGCTACGTGGGCCTGGAGCAA
339 CCATGATGCATTGGGTGCATTTAG 340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCGTTAGGATC 344 GCCGTGAAGTCGAATGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGCC 347 TGTTTGCCGCCATTAGGGAGTAAC		337	GGGTGCTACCATTGCATTAGTCCG
340 GGTCCGGCCCTACGAAACGTTCGA 341 CCGTGTGGCTGGAGATTCGTGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCGTTAGGATC 344 GCCGTGAAGTCGAATGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGGC 347 TGTTTGCCGCCATTAGGGAGTAAC		338	ACCACGCGCGTACGTGTAACCGAG
341 CCGTGTGGCTGGAGATTCGTGTGA 342 GTTAGGGCGACGCATATTGGCACA 343 GGGTCAGTCAGGTGCGTTAGGATC 344 GCCGTGAAGTCGAATGCAGATCGA 345 GCCACCACCCAGTGCATTCAGGTA 40 346 GAGCTTAGTTTGCGGTCATCGGC 347 TGTTTGCCGCCATTAGGGAGTAAC		339	CCATGATGCATTGGGTGCATTTAG
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		348	GCTCCGCTGGATGTGCCGGTTTAG

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Ī	394	ATTGGAGTGTTTTGGTGAATCCGC
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· [396	GCCGTCAAGCTTAAGGTTTTGGGC
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	399	GTCGCCGGATTGCTCAGTATAAGC
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	492	CGCAGCAGCTGAACTCTAGCATTG
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	738	ATCGGAGCCACCATTCGCATTGGG
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	740	AGGCGATAGCATGGTCCCATATGA
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	742	AGTAGTGGTCCTCCAGATCGGCAA
	743	CCGTTGAATTGGACGGGAGGTTAG
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	748	GCAACTTGCACGGCATAAGTGGCC
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	750	AGCGCTGGGCTGTGCCATCTC
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	775	GCAGTGCGCACTTCAGTTCAAAAG
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	780	GCGCTTGCCCGATGCGATGCATTA
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	785	GTAATCCATTTGTGGCTGCGTCAA
	786	CAAACCCATTCCAGCAGACGCCTG
	787	TAGGAGGAATTTGGCATGCGGGCG
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	789	GCAAGTGCTTAGCTCGTCAGCCTC
	790	CTGGCTGTCGCATCTCGTTAAC
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	852	GGCTTCGCATGCCTTTGCAACATT

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	855	CGTATCATAGCGTTCGGTGGACAA
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	858	TTGCGGAGATGCGACGGTACATTG
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	860	CTAACTGCCGCGGCAAACTGATTA
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	863	GTCCATCCATCTACGGCATCAGGA
	864	TAAACGACCTGGCACATGTGCGTA
	865	CACCATCCAAGAGCCAATCCTAGG
i	866	ACTCATATACGATCAGTCCGCCGC
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	868	TGGGGTTCGTACAGGTCGGTTCAT
	869	AACAGTAGAGGCGAGGCCTGCGGG
	870	TGCATCGAATCCGAGATGGATCTT
	871	GCGTCACGTTATGTCCGCTCTGTC
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	874	ATGCTCAGGTGCTAAATACGGCCA
	875	AAAAATGTTTAGCGCGCTGACTGG
,	876	ATAGTCCGTTTCCGAACGA
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	885	CATCATTGGCACCGTACCAATGCC
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+	888	GGCACAGGTTCTCTTGCAGCGCGG
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	907	GGCTTCCGCGATAACGTAATTCGC
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	916	TACCTCGAGTGGCCGTTGATCGGG
	917	TAATTCATGGGGCTAGCCGAACCA
ļ	918	ACACTCTAAGCCGATTCCGTTCGA
25	919	GTGGGCGTGAGTGACACGCACAAA
	920	ACGACTCCTCGGGCAAAGTACGTA
	921	TGTGGTCATGGCGCTACTGTTTTC
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	923	ACAGGGCGTGTTAGCGTGTGACAA
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'	928	GTGAAATGGATCCAGAGAGGGCCA
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	930	GTTATTCAGGCGGCTTGTAACGGG
	931	GGGTTCTAGCGTGCGCGTTCAGTT
	932	TTGGGCTCGAGCGGTACACCACTA
	933	CCGTCTTCAGGACAACGGTATGCG
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	935	TAAATTTATCGCCAGGCGCGCT
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	939	TAAACGGAGACTGGCACGGTAGCA
	940	TAGCGCGCATCACACTTGGAATCG
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	947	CCGCCATTCGGAAGATGGATGATG
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	957	GCGGGCGATGCTCCTTAAAGGGTA
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	972	TCGATGCAGTCTTTTTCCCGTCAA
	973	ACCCCGTGGGGTTTCGCCATTTTT
·	974	CTACACGCGCAGTTGTGACTTGTG .
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	977	ACGCGCCCCTCATCACTACAATCT
	978	CGCAACTTCCTGTGGCAAAGCCAG

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	980	CCGCTTGTAATTGCCATTCTCCGT
	981	GTAACCAGGGAGTCCTGGGCTGTG
•	982	AGCGCAAGATCTGGGGGCAGTCAC
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	984	CCTCTGTGGCAGGAAAGAACCGT
	985	CCTATGCAATGGACCTGCATCGGA
	986	CTCGGTGGATGGCGAATAAGGATA
	987	CCTCACTCGTGATGGCGTGACGCA
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	989	CCGGAGAAGTTACGCGGATCGGAC
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	991	ACTTTCAGCACGCGAACAGCGCAA
	992	CTAAACGCCCTTGATGCATGAGCA
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	995	TAGCCGCGCGCTCCTATGCTCTT
	996	GATGCCCTTTTGGTCCCCATGCCA
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	999	TAGTGCTCTCCGCGCTCATCCAAC
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	1005	CATTGAGGTCCACCGTTCACATCC
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	1011	GTTCTTCCTTTTCTGCGGTGGGAA
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	1017	ATCAGCGCAAGCTGGTCTGAAACA
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	1021	ACAGCAAGGAGATGGATTGCGACG
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ļ	1024	CGATGTTAGGATTCGGATAGGCCA
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	1029	CGGCAGGTGGAGATTCCGACATTG
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į	1033	CGTGACTGCACGTGTTCCACAGGG
	1034	GCTGAACTACCGCCTAAAATCGCG
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ł	1036	ATGAGGGCAAGGAATGGGTCATGC
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	1049	ACCCTCTAAAGCAATAGGTCGGCG
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	1053	TGTCGCCCATGGCAGGTTAAATAC
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	1057	TAGAATTAGCGAACGGTGATCCCG
÷ •	1058	CACATGACATTTGGCAAAGGTCCA
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	1104	GAGGAGGCCAATAGAGCAGCGCGC

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	1106	TGAGGACAAACCGCGCGTAGGATA
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	1108	CGAAGCTACACCCCGAGTGCGGTG
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	1113	AAATTAGGCACAGCCCTCCCACAG
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	1140	TCGATCCCGCGATCTGGCCTATTG
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	1142	TCACACCAACTGGCCACAGATG
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	1160	ACCTGTGCAGTCAGCACGAGTGCG
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į	1162	CCTCGCTAGAGAAATCCACGGGAT
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	1165	AAAAGCGCTGCTCTAACACCGCCG
<b>!</b> 0	1166	CAAGTCTGTCCATTTCCCAACGGT
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İ	1169	CGGCGATCCATTTCACTTCAAAGT
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	1197	CTTCATCACGTGACCTTTGTTGCC
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ļ	1200	CGCCTCTAGCGCTTGTTACGTCGA
	1201	CTGCCAGACTCAAAACAGGGACGG
	1202	CTCCTTACACCGTGTGAGGGAACC
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ļ	1204	TCTGGCTTTTCCTCGATCAATCGT
	1205	GTCTGACTGTCTGCCCTGTATGCG
	1206	GGTTAATGGAACGGCGTTAACGCG
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	1209	GACGGCCAGCCAGTATTAACTCA
į	1210	GACCTCCAAAGTCAGTCTTGGCGG
	1211	CGTTAGAGCATGACCGAACACGTC
j	1212	GTGGGCTCAAAAATTGGGTACGCC
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	1214	TTTCGCCCTACGAAGCGAAGTTTC
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	1226	CAGAGGGCAGATGTGACTCCTCAA
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	1232	CCAGAGAGGCGGGCTACTGACTCA
	1233	CACACAGTCCCATCGTACGGCAGT
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	1237	ATGCGAGAGCAGAATTGAGCCGGT
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	1243	ACCGTCATCAGTCGCAGGCTTCTG
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	1259	TCCACCTTCATTAAGTGGTTCGGC
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	1263	GCTGTGACGCTCCCCTCAACTAGG
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	1290	CACTCGAGATTCAATGGGCATGGT
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į	1440	GGCAGAGGGTTAGGGGGTTTTTTT

·	1441	GGCAAAGGGTGTTTATGGGAGAGG
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	<del></del>	
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40 1564 CTGCTGGGCGCAAAGCTTGTTG
1565 AAGCCTTCTTTGGCTTGCTCCGCT
1566 TACCTGCTGCAGCAAGGCAT

	1567	GACGCCGCAGCCATGAGTGAGTGT
Ţ	1568	AGTTGGCCGCTTATTTTGCTCACC
	1569	AGGCGCACGGAGAACATTTGCCAA
	1570	CCAGGCGCCTTCGACAGATCCTCA
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	1572	GACAACAAGCCAAGGTGACACGTC
[	1573	CTACACCGCTCGTGACTCGGCAAA
	1574	TGGTGCCATCAAAGCACGTTGTAC
	1575	ACAATGCGTGTTGCGAAACGCATA
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	1577	ACGAGAGATAGCGGACTCCTCCGA
	1578	AGCTTTGTCGTCAGGCGAGCTCTT
	1579	GACAGTCGGCGTGCAGTTTGTTGT
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	1583	AGGTAGGGTCTGGTTTGACTCGCA
	1584	CCTCCATTTTAGCGCGTTGCCAAT
	1585	TTCTTAGGATCCGCGCACTCTTGG
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	1587	GTCACTCGGCGGCCCAATCACTCG
	1588	TCTCGGTCACCCGTCTTGACCCTT
	1589	GCCCTCGACGAACTCATCCTGAAC
	1590	TCCGGCGTACTCTGACACGGCGAT
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	1592	ACTCCACGCCGCATGTTGCTGTGA
	1593	GCTTCGAGTCGGTGGCATCTGTAT
	1594	GGTCTTGGGCCATCGACTTGCTGC
·	1595	GGTATCGGACTGCACTAAGGGCAA
30	1596	AGCCCATGCGTTCCGGATGATTTG
;	1597	GCCAGGGTTAAAAGTGATGGGCTC
	1598	GACGACGTGCTGGCTACGAAGGGG
	1599	TCCTATTGACCGTGCATCGTGATC
i	1600	ACCCGCCTCGACTCCACAACTAAA
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	1602	GTGCCATTGCCACCCATAATGCGT
	1603	TTAGCCTGTGCACCCAGTCAGGAG
·	1604	TCCGATGGGAGAGGCTGATCTCAC
	1605	CACTACTGAAGTGGCCTGGCGCTG
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	1607	GATTGCGCTTAACGGAGATGCACG
	1608	TCACGTTTGACAACGCCAAGCATT

	1609	GCATTGTTTGCTAAAGGCGGCATT
	1610	AGTCGCTCTACGCGTGCAACGCTG
	1611	TAGCTCCATGGAGGTCCGAAAGGG
	1612	GACCGGTTGGACCTCACTGGCTTC
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	1614	TGCCTCGCTGAGTTCTTCACCGTG
	1615	TCGTAGACCTTGCTTTTGGGCTCA
	1616	ACCGCTATGCGCCCTACAAAGCAT
	1617	TAGCGTCACCGTAGCTTGGGGCAG
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	1619	AAAGGAAATGTGGTGCTGGTCGGC
	1620	CCGGCTTAGATGGAGAACAAGTGC
	1621	AAGTAAATCGCCTCGCCCAAACCG
	1622	TGGGCTGTTCAGCCTACCGGACGT
15	1623	GTTTCGGTTCAGCCATGGGCCTAC
	1624	GGCCAACATTTCTAGGGGAGTGCC
	1625	TTCTTCGTTGGGATTGTCCTCACC
	1626	TGCACATTGGGGTACGGATCTGAC
	1627	GGCAGTTAGACGGCAAACTGCAGG
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	1629	GCTGAATGCAAACCTCGGAGCCAT
	1630	CGCTCTGGCGGATTCATTGTTTTC
	1631	TTTTCAATCAACCCTCCGGACGTA
	1632	GTGGTGGAGTCTGAAGCACGACAG
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	1634	GTACCGCGTGTACGCCACCGTTAG
	1635	TCCAACCTACATTTGCGGAAGGAA
	1636	GACGTACCGTCGTCCCGTGAGTTG.»
	1637	GGCAATCCTACAACCGACGCTGAT
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	1639	ATACTACGCTGCAGCTGCGCGGC
	1640	GGATCGCAATCCCTCCGATGACGA
	1641	TGGCCTTGCACGGGAGCCGAATCT
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	1644	CGGTCCCAATGTTACAACCCAGAC
	1645	GCAATTCCAGCCACTTTTGACCAA
	1646	ACGGGCGAAAGCTCGGTACGGATA
	1647	CGACCCGACTTTTGCTTTCGAGTG
40	1648	AATTCAGTGTTTGCGTCATGGTCG
	1649	CCTGTATGAGGTTCTGGGTCGGCT
	1 4050	ITOGOLTI OTTOGTOGI A LOGGOGOT

1650

TGGCATACTTGGTGCAAACGCCGT

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	1651	TCGCCAGTACAGAAACATGCGGGC
	1652	CCCGCTGTTGCTCTCATCGTGGAG
	1653	GCCACAATCTGACCCTGGGAATCA
	1654	GCTCAGTCTCGGAAGTTTCGGCTA
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	1656	CGACAGTTCCGTCCGTCTTGAGGA
	1657	ACGGAGACGCAGTCGAAACGTCCC
	1658	CATGCATCCGATTAAGGGGATCAC
	1659	ATTGCGGGAGTCCCTAGCTTTCTG
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	1662	GCCGTGGGAGTAAGGGTACAAAGG
	1663	GCACGTAGGTCGGCTACTACTCGG
	1664	ACTGTGATCTCTTGGGCAAAGGGC
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	1666	GAGCCTGGCTCCACAGCTGTGCTC
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	1668	CCCGGAGGTGAGGCATTGAATATG
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	1671	TTTGCCTTCACAACAGACGCAGCA
	1672	AAATCCCAAGACGTCGGGGCGTAT
	1673	CAACGGGCGGTAGCTAAACCGTAA
Į	1674	GGCCAACGACAATGCGAAACCTTC
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	1676	ACGTTCCGTCCACAACCGTATGTT
	1677	GCTCATAGGTCTTCCGTAGCCCGT
	1678	GAAACGAGTCTCTCGCGCCCTAGA
	1679	CGGGACAGAGCAAGTTACATCGG
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	1681	CTGGCAATAAAGACCTTCCGACCA
	1682	TGCGCGACGTCATGTTGGTGATTA
	1683	GTTGGTTGTGGGAACACCCCGCT
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	1686	TGGTGCGGAGTGCCCTCTATTGGG
	1687	AACCAACAGGCTGCAGCCCAGACT
	1688	AAACAGATCCATCTGCACGCCAGG
	1689	GGAATACCGCGGCGATTATGGCTT
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	1691	GATCTCTCGTGGAGCACGTTTTCC
	1692	GGCATAGCAAACCTTGACCTCCAA

	1693	ATCTGGGATTCGCGAGCCAATATC
	1694	CGATCAGGATATCATTTACGCCCG
	1695	ACGGTACCGAAACGGTCTCAGCGT
	1696	CTCCCATACCTGCGTTCTTACCGA
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	1698	GCCACACGATCAAGACAGCGCATG
	1699	CCCGTTAACTCACGAGCGGTCAAT
	1700	AGAGAAGGTCATTGCCTGTCGGTG
	1701	CGGGCCCTCTTAAAGTAGAGCAGG
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	1703	AATGCCTAATCGAGCCAGCGGATC
	1704	CTCGATCTTTTAAACCGGCGCTT
	1705	CGTTCCTGGAAGGCAGGGTCTCAC
	1706	CCTGTGCTTACTATCGGCGATCCA
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	1708	CCGGTGAGATGACTGTAAATGCCA
	1709	CGTGGTTTAAAACATCGCGCTTCG
	1710	TAAGACGCAGAAGATGGGGTCCAC
	1711	CACCACAGCTTCTTTGTTCGACCC
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	1713	CCAAGCCCCGAGTACCGAAGATTT
	1714	TCCGTGATATGGTCGTGGCGCGGT
	1715	TGTCTGTGTCATGGCACCTCGCAT
	1716	AGGACTGCACTGTGCACGTCTGAT
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	1718	GTACCCGCGCCTTCCTCGACACAG
	1719	ACGGGTCCTGGTCGACTAAGGCTT
	1720	CGTATCGAAGGCGTGTACAACCGG
	1721	TGCCCGCCTTTATGCAACGCTCA
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	1723	AAGTCTGACAAACGGAACGGGTGT
	1724	TAAGCGCAGACCAAAGTATGCGGC
	1725	GCAGTTTTCAGATCCTCCGCAAA
	1726	TCGGAAGCATTTACGCGATCTCAG
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	1730	GGTGGGTAGCGCTGGTATGAAAA
	1731	ATTATTACGGGACCGAACCAACGG
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	1733	GACATTCGTGACTTGGTCGTCCGC
	1734	TCATTAGTGCAGGCACCGATCAAG

	1735	GAGTTGTGCGGAGTCATCGGAGTC
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	1737	ATGGCGTTTGCGAAGTCGATACAG
	1738	TGCATCGGCCTCAATCAGAGAACT
5	1739	ACAATCATGGCAATCTGGCAAATG
	1740	GACGTGGAAGAGTGCAGATCAGCA
	1741	AGGGCAGGGACGGACAGTAAGTC
	1742	GCATAGGGCGAATCTAGTACGGGC
	1743	TCCGGCGCATCCTCATTAGCAACT
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	1745	CCGGCGGACGGCTCTTGTCAATGA
	1746	CGAGCAACCCAAAAGGAAGCAGTA
	1747	GCGTATGATTCGGCAATCCGCCAG
	1748	AGTACCGCTACAACGCTGGTTCGC
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	1750	CCACTTCTGTGACCGAACCGTGCT
	1751	CCTGGTACCAGGCAGCAGTTGATT
	1752	TTAGGGTACCGTCGAGAGACGCCA
	1753	GGTTGCTTGTGCGCGTGAGGTAGT
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	1755	TGCCACCCATACTATGCCCAGTGG
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	1758	TATTGCGAATTCGAGTACGTGCCC
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	1760	TGCCTGGGGTGTCGTTCTAATTCT
	1761	GTGCGTCATTGTGGGTCATCCCAA
·	1762	AGGGCTCCCAGCATACCAACGTTG
	1763	AACTAGCCGCACCTTTGTGCAGAG
30	1764	TTAGCCCAGCCCTTCAATGGGAAC
	1765	CGGCCTCGGTTGTACGGGTAGTCT
	1766	TCTTTGAGGCGCGGACCCGCATAT
	1767	GATGGTTCGCCCTTGTGTCGCAGC
	1768	GAGATTCAATACAGGCCGCGGGTC
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	1770	CTCGACCCCTGCCACTACTGGTTC
	1771	TGTTCCGCGGTCTACGCATTACTG
	1772	GAGACGACGTCCTACACCCGCTAA
	1773	AGATTGCGACAGCGACACGTGATT
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	1775	GATTGGGAGGCATTCAGCGACGGA
	1776	AGGAGGAAACGAGGGCGTAGGTTC

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	1778	TTTAATGCGGAAAGGATGCACGCG
	1779	TTATCGGCCGTTAAAATGGGATGG
	1780	CCTTGGATTCGTTCATCGCTAGCA
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	1782	TCCTTACCCCTCGTTCAAACGCCT
	1783	ATTCCTGAACCATGCATGGCCTGT
	1784	AGCGAGACGCTCGATCACGAACTA
	1785	GCTGGTCTGGCTCGCTGTTTAGAA .
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	1787	TCTGGCACTCACATCGGACAGTCT
	1788	ACCATTGGAGGACCACAGAGCTCC
	1789	TCCAGGGTCGGAGTACATGGCGGG
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	1792	CAGGGCGTGCGTGAACTAGCCA
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	1794	CCGGCCATACGCTGGCAAGATTAC
	1795	AGCGGACACCTGTACTCTCCTCCA
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	1797	CGCCACCGGAAATTGAAAAGACTG
	1798	TGAAACGGATGTTGCTTCTTGACG
	1799	TTGAAGCGGTGAAGAGCCTGTCCT
	1800	CGAACCAAGCTGCATTGTCAGTGG
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	1802	GCTGGGTATAGTTGCCTGGCAATG
	1803	GCAGGCGTTCCATATTCGCAACCC
	1804	GCGCCAACTAATACCTCCACCGCG
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	1808	CTTCCAAAAGCGCAATTGGCTTTG
	1809	TCGGGCTTCTCGCAATTCTGTCAG
	1810	GCCAAAAGAATGCGCTGGGTAGGT
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	1812	CGAGGCCGTAGTGGGGACTGCTCT
	1813	CGATCTGCGCATAGAGGGGACTTT
,	1814	TGTGCAATCGGCCTTCTCAGAGCC
	1815	GATCACCTGGACCGCTACCGTTTT
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	1817	CATTGTGGACAGCCAATGGTGGCT
	1818	CCATCACCATGCCACGGTAAGATC

	1819	GCACCCGTGTCGTTGGTTAGCAAG
	1820	GGAGTGGGTTCCGCGAATTCACTG
	1821	GGGGATTTCCTTTCGCAGGCTCGA
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	1824	CGAGTAACGCGGTTGCTTTGCGAA
	1825	TGGCCTGGAACATAGGTGGAACTC
	1826	CGCACACCAAGCGTTTATTGAGAA
	1827	TCACCTTCACAGTGGGCATACAGC
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	1829	GGGAGCTGGTGAGCAGATGTAACG
	1830	AGGATTGCTTTTGCGTTATGCGGA
	1831	ATCGTTTGGGCGCTACGCAATTGT
	1832	CCGATTTGTCCCAAATGCAACGTT
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	1834	TCTGACGTCGTTCAAGGGCTCGCT
	1835	CGCACCACTCCGAGGTATTTGTCT
	1836	AAGGGGTGAAAAAGGAGAAGCCGA
	1837	AAACCACGCAAATGGCGATACCAT
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	1839	CATGACGAGAGCGGACCTGAAGTG
	1840	CTGGACATGTTTGTTTCGCCACTG
	1841	AAGACCGACTCTCGTCGTTTGCAC
	1842	GCGCGATTACATACCGTTTCCGTA
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	1844	AGTGCAAGTCTAGACACGCCCGAG
	1845	GGTTGGTGCGAGATCCTGGACTGT
	1846	GGTCGTCCCGAAACGTAAACGAGG
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	1854	TGCGATAGCCAAAGAGTCGAGGAC
	1855	ATGGCGTGTCAGCGAACTGCCTGG
	1856	CAATGCAGCTCGGAAGTCAGGTCG
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	1859	CGCATTATCACCTCAATGCCAGTG
	1860	ACATCCGCAGACTCCCTATAGCCC

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	1861	GTGAACCCGAACGAGGGGAGTCTC
	1862	GCGTAGGGAATTTGCCTCACGACT
ļ	1863	TTTACGCGTCGCTCGGTTGTAGTG
	1864	GAGAGGCGTCTAGGCGGTTCTAGC
5	1865	GCATGCTGATAACGAATGCTTCCC
	1866	CTGAAGCTCGTGTGCGATGAGGGA
	1867	ACAACGGCATGAGGAGGCTTTTTC
Ĺ	1868	TTTGGAGACGCCAGTACGCGTGGT
<u>}</u>	1869	GCTATCATTTGGTGTAAGCCCGCC
0	1870	TCAACATCCAGGGCGGTGCTTGGT
	1871	TTCGATGTAATCCCCAAAGATGCC
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<u> </u>	1874	AACGGCTCCCCGTCGTACTGCTTA
15	1875	CCTATACCGTCGTGGTTCCACGTT
Ĺ	1876	CCGCGCAGGCGCTAATACTCAAGG
Ĺ	1877	AAATGGGCCAGTGAAATCCTTGGT
Ĺ	1878	ACGGTTTCGAATACTGCTGGGCAG
	1879	CCGCTTGAGGTTCAGGTCAGAGCT
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	1881	ACCTGAACCAGGGCGATTGCTTTA
	1882	ACCCTATACGCTGGGCTAAGCGGG
	1883	TGTTTCGCGACTAGAAGCCTTTGC
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	1886	CCACAGTTGCGTGACTTACATCGC
	1887	ACTGCCACTGCGTCTGAAGAGTGG
	1888	GCGCCAGCAAATTTCGTGTGGTGT
	1889	TGCCTCCGTCGAGCCGAATAGCCA
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	1891	GCTTCCCTGGCTCTGAACGGAAAC
	1892	CGGCTACCCAGGCAGATAAGCTGA
	1893	GGTTGGACCGACAGGGAATTTCC
	1894	GGGGAATACCCGGCGTTTGTAATA
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{	1896	TCGGTAGGGTTCAGTCGCTGAGGA
	1897	TTCGGAGTGTGCCGGTGCTAGTAC
	1898	TCGTACTGGAATGATGGCCGGGCC
. [	1899	TCCGTCGACCGTCCAGCGAAGTTT
40	1900	AGGGAATATAACAACACCGCGCAC
	1901	ATGTCCCGGAAACCAGCTACCTCA
	1902	ACCAGCGACTTAGATAGCCGTCCG

	1903	GGAAAACCTCCTTTGCGTCAACCA
	1904	ACGTGCGTGCATACCCAAGAGGAC
	1905	ACGCCACTTTCCCTAGAACCAACG
	1906	CGAAGTACGCAATAGTGCCACCCT
i	1907	GATCCCGGCGGATCACCTATCAAT
	1908	AGAAAGCGACCGTTTCAGGCTAGC
	1909	CGCTCCCTTTCATAGTCCTCTCCG
•	1910	GTGGGTGGTCATAACGACAGCAGA
	1911	CTGGAGGCTGCATCGTTCGTAACA
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	<b>1</b> 913	CAAGCTGCGTTCGATGAGAGATTG
	1914	CCTGGGAGCAATGACCGCTCTGGT
	1915	TCCGGCGCTCTACCAAGATGAGAC
	1916	CGACCGCGTCGCGTATACTATCCG
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	1918	TGTATGATCATCCGACCGAGCAGC
	1919	AGTGCGCCGAGAGGGTGAATAGAC
	1920	AGGCTTGTTCTGGACCAGCACCAT
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20 .	1922	TGGTGAAGATAAATCCGCATGGCA
	1923	ATTTCCACCACGCTCTTGCCAAAT
	1924	CGCGTAAAGCTGTCACCGATGACC
	1925	TCCCCAACCGGTAACAACAGCGAC
	1926	CCTCTGCTCGCCTTACACCCATGG
<b>25</b>	1927	CAAGCTGCTCCTGTGCTGAAGGGC
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	1930	GGCTCTCAACGGACGCAAATCATA
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	1935	CCTCCTACAGCATCCACATGAGGG
	1936	CACTCGGCAAATACGTATGCGCAT
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	1938	GACCACCTCGGAAGATCGTTCTGC
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	1940	GCTTAGCCTCACACGTGCATACCA
	1941	CTGCGGTCTCCAAGTACCATTTCG
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	1943	ATCGACGCAACCGGATAGTCTCTG
	1944	CGCAGATAAACCGGCATCTTTCAG

	1945	ACCTGCCAATACGGGTCTACGGTT
	1946	ACACCTGTTGCCATGCTGATCCGT
	1947	AAACTGTCTACTGCGCAATTCCGC
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	1950	GGCTTACTCCTCAATTGCGACACG
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	1952	CTTAGACGTCGGCAATGTCACGTC
	1953	CTCAGAGCACAATCTGCCCTGCCT
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	1955	AAAGCCCCAAAATTCCGCCTAACC
	1956	GCGCAACGCTAAGGGACTATCAAG
	1957	CGTCCGCTGGGATGAGTCTCCTGC
	1958	ACAGGCCTCGTGATTGGTGTGGGT
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	1960	TCGGAGTTGACCAAGCTCAGTGCG
	1961	ACGCGCCACTGCAATTGCAAACAC
	1962	AGTTCATGGAGCCGGCGTATTGTT
	1963	ACGTTTAATGCGGGGCCCGCCTAC
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	1965	CAGCGTTATGAGCGCGGAGTTTAT
	1966	GTCCACGTGACCACGGATAGTTGG
	1967	GATTATGCTCCTACGCCTGCTCCG
	1968	TCGTCAAGGGCATGATGTGTGGGA
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	1970	TACACGAGGATGGGGTCAAGCTTT
	1971	ACACGCACAAAACGTTTGAAAGGC
	1972	GTTATCGTGGGCCGATGGTACTGA
	1973	ACATGACCGTATCCGCCTGCTTCG
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	1975	TGACTTTTGCAACGGGTGGAACCA
	1976	TGAATTCGTAGGTTTTGGGTGCGG
	1977	AGCATTTATGAAGCGGCCATTGCG
	1978	TGCTCCTCGCGTTGGTACCGTGAG
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	1980	AGACGCTTGGAGTGAAAACTCGGA
	1981	CATTCGTAGAATGCCCCAAATGGA
	1982	CCAGAAGGTTCGGGACCCGTCGTG
	1983	GAGAAGCCGGTTCTCAGAGCACAT
40	1984	TTGCGTTGCAAGATATCTGGCCCG
	1985	GGGTTGCATGTTCAGGCAAGACGA
	1986	CTCACGAAGGTGACATATCACGCC

1987   GCCCGAGATACGGGTTCAAAAAGA 1988   TACACGGTACTCCTCCGC 1989   TACACGGTAACGTACGCCCCC 1990   ACCTTCGGACAATGTGGCGTCCCC 1991   TGAATGGTTCTGCTAGGCCCACAC 1992   CACGCCTGTCTGACATATGGATGC 1992   CACGCCTGACATATGGATGC 1993   GCCTCAACCCAATCTGAGAACGT 1994   TTACGCTTACTGCGACATGTGGACCC 1995   GGCTTGTGGGGCCACAC 1995   GGCTTGTGGGGCAACAC 1997   CTTCGAAGCACTCTT 10   1986   CACTCTCCTTTGGATGCGGAACAA 1997   CTTCGAAGCACTTCAGACTTGGC 1998   GACCAGCCATCAGACTTGGC 1999   AGGAACCGGATGTGGTTATGGACC 1999   AGGAACCGGATGTGGTTATGGACC 2000   ATCCATGGGCAACTGAGCCTATGC 1999   AGGAACGGGATGTGGTTATGGACC 2001   GGACCAGCCATTCACGCCACC 2002   TGGCTCGCTTCAACCGTCATCCC 2003   CAAACGTGAGGCCACCAT 2004   ACCGATGTCTTAAAGCCCACAT 2004   ACCGATGTCTTCAAGCTCGGACAC 2005   CGAAAATGCATGAACTCCCCACC 2006   TTTGGTATTCTCGCTGCACCCTT 2007   GCGTACTCAACCACATTCCCCACC 2008   AGCAAACAACACGGGTCCGAGCAT 2009   GGACTAGGAACACCACTTCCCCACC 2009   GGACTAGGAACACCACTTCCCCACC 2010   CCTTAACGAAAACCTGTCCGACCC 2011   CTCGATTCGACTCCGACCC 2012   CCGTTGTTGGCCGACAAAAGT 2013   CGGCGGCTCTCGCATCATCCCCC 2014   CGGATGGAGAGGAGTAACCCG 2015   ACCAAATCAGACTAGCGACTACCCC 2016   CACAACAATACGCACATTCCCCC 2017   CTCTTTGCCGACTGCGCCC 2018   GCACCAAAACATACCCGGTCCCAACCGC 2019   CGACCGACAAAAACT 2019   CGACCGACAAAACTACCGCCCC 2016   CACAACAATACGCGCTCCCAACCGC 2017   CTTTTGCCGCTCCAACCGC 2018   GCACCACAAAACCAAATGCCCCCC 2019   CGACCGACAAAACCAAATGCCCCCC 2010   CCTTTTACGCGCTCCAACCGC 2011   CTCGATTCGCGTCCAACCGC 2012   CCCTTGTTTGCCGCTCAACCGC 2013   CCCTTGTTGCCGTCCAACCGC 2014   CTTTTCCGCGCTCCAACCAGCAAAACCAAATGCCCCCC 2015   ACCAAACAAACCAAATGCCCCCC 2020   CCAAGGGTTTGGGAGCTAAAGAACCAAATGCCCCCC 2020   CCAAGGGTTTGGGAGCTAAAGAACCAAATGCCCCCC 2020   CCAAGGGTTTGATCCTCGTGGAG 2011   TTAGTGCGCATAATCCTCGTGGG 2021   TTAAGTGCGCATAATCCTCGTGGG 2022   GCCTGGTGGGGAAAATTTTGC 2024   TGCGCCAACTTCCGGAATATTTCC 2026   GTCCAACGGTAACTCCTCCGAATTTCCCCGAATTTCCCCGAATTTCCCCGAATTTCCCCGAATTTCCCCGAATTTCCCCCAACCGAAACCAAATTCCCCCCCC	ſ		
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2005 CGAAAATGCATGATGATCTCCCCT 2006 TTTGGTATTCTCGCTGCACCGTTG 2007 GCGTACTCAACCACATTCCCGACC 2008 AGCAAACAACAGCGGTCCGAGCAT 2009 GGACTAGGAGCGGGGATAGCTGAG 2010 CCTTAACGAAAACCTGTCGACCGC 2011 CTCGATCGCATAAGCAAGAAACCG 2012 CCCGTTGTTTGGGCGACAAAAAGT 2013 CGGCGGCTCTCGCATGATCTCGTT 2014 CGGATGGAGAGGAGTCTACGTCCC 2015 ACCAAATCAGACTAGCGACTGCGG 30 2016 CAGAACAATATCGTGCGTCAACCG 2017 CCTTTGCGCGCTCCAGATAAGCAACCG 2018 GGAAACAATATCGTGCGTCAACCG 2019 CGACCGACAAAACCAAATGCCGCC 2020 CCAAGGGTGTGGGAGCTGAAGAA 2019 CGACCGACAAAACCAAATGCCGCC 2020 CCAAGGGTGTGGGAGCTGAAGAGA 35 2021 TTAAGTGCGCATAGTCCTCGTGGG 2022 GCCTGGTGGGGTAAGTCATCGTCCC 2023 GAGCAGCAAATTCCTCGTGGG 2024 TGCGCCAACTTCCGGAATATTTGC 2025 AACCCCATCATGAAATGCTCTCCG 40 2026 GTCCAACGGTACTGGCGTGATGTT 2027 ACTCGGCTGATCGTGAGATGTTT		2003	CAAACGTGAGGTCATGACCACCAT
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2018 GGAAACGCACCTATCTGTCGTGA 2019 CGACCGACAAAACCAAATGCCGCC 2020 CCAAGGGTGTGGGAGCTGAAGAGA 35 TTAAGTGCGCATAGTCCTCGTGGG 2021 TTAAGTGCGCATAGTCATGATGC 2022 GCCTGGTGGGGTAAGTCATGATGC 2023 GAGCAGCAGATTGATGCGCTTATG 2024 TGCGCCAACTTCCGGAATATTTGC 2025 AACCCCATCATGAAATGCTCTCCG 40 2026 GTCCAACGGTACTGGCGTGATGTT 2027 ACTCGGCTGATCGTGAGATGGTGA	30	2016	CAGAACAATATCGTGCGTCAACCG
2019 CGACCGACAAAACCAAATGCCGCC 2020 CCAAGGGTGTGGGAGCTGAAGAGA 35 2021 TTAAGTGCGCATAGTCCTCGTGGG 2022 GCCTGGTGGGGTAAGTCATGATGC 2023 GAGCAGCAGATTGATGCGCTTATG 2024 TGCGCCAACTTCCGGAATATTTGC 2025 AACCCCATCATGAAATGCTCTCCG 40 2026 GTCCAACGGTACTGGCGTGATGTT 2027 ACTCGGCTGATCGTGAGATGGTGA		2017	CCTTTGCGCGCTCCGAGTAAGGTA
2020 CCAAGGGTGTGGGAGCTGAAGAGA  2021 TTAAGTGCGCATAGTCCTCGTGGG  2022 GCCTGGTGGGGTAAGTCATGATGC  2023 GAGCAGCAGATTGATGCGCTTATG  2024 TGCGCCAACTTCCGGAATATTTGC  2025 AACCCCATCATGAAATGCTCTCCG  40 2026 GTCCAACGGTACTGGCGTGATGTT  2027 ACTCGGCTGATCGTGAGATGGTGA		2018	GGAAACGGCACCTATCTGTCGTGA
2021 TTAAGTGCGCATAGTCCTCGTGGG 2022 GCCTGGTGGGGTAAGTCATGATGC 2023 GAGCAGCAGATTGATGCGCTTATG 2024 TGCGCCAACTTCCGGAATATTTGC 2025 AACCCCATCATGAAATGCTCTCCG 40 2026 GTCCAACGGTACTGGCGTGATGTT 2027 ACTCGGCTGATCGTGAGATGGTGA		2019	CGACCGACAAAACCAAATGCCGCC
2022 GCCTGGTGGGGTAAGTCATGATGC 2023 GAGCAGCAGATTGATGCGCTTATG 2024 TGCGCCAACTTCCGGAATATTTGC 2025 AACCCCATCATGAAATGCTCTCCG 40 2026 GTCCAACGGTACTGGCGTGATGTT 2027 ACTCGGCTGATCGTGAGATGGTGA		2020	CCAAGGGTGTGGGAGCTGAAGAGA
2023 GAGCAGCAGATTGATGCGCTTATG 2024 TGCGCCAACTTCCGGAATATTTGC 2025 AACCCCATCATGAAATGCTCTCCG 40 2026 GTCCAACGGTACTGGCGTGATGTT 2027 ACTCGGCTGATCGTGAGATGGTGA	35	2021	TTAAGTGCGCATAGTCCTCGTGGG
2024 TGCGCCAACTTCCGGAATATTTGC 2025 AACCCCATCATGAAATGCTCTCCG 40 2026 GTCCAACGGTACTGGCGTGATGTT 2027 ACTCGGCTGATCGTGAGATGGTGA		2022	GCCTGGTGGGGTAAGTCATGATGC
2025 AACCCCATCATGAAATGCTCTCCG 40 2026 GTCCAACGGTACTGGCGTGATGTT 2027 ACTCGGCTGATCGTGAGATGGTGA		2023	GAGCAGCAGATTGATGCGCTTATG
40 2026 GTCCAACGGTACTGGCGTGATGTT 2027 ACTCGGCTGATCGTGAGATGGTGA		2024	TGCGCCAACTTCCGGAATATTTGC
2027 ACTCGGCTGATCGTGAGATGGTGA		2025	AACCCCATCATGAAATGCTCTCCG
	40	2026	GTCCAACGGTACTGGCGTGATGTT
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		2028	ATTCGTGGGCGCATCTCGGAATGT

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į	2138	TCGAATGCTCTGCAGTGACGTCAA
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	2280	CCGTCGGTGGTAGGACGTGAATGT

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	2439	TGACCTGAAGCCCATCCATAAGCA
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	2442	ACCGCTTTCTGTGTAGAGCCCTGA
	2443	CAAATAGACAATCGCAGCTTCGGG
	2444	TGTCCTGACAAATCAAGGTGCAGG
	2445	AAATTGCACTCGCGGAGATTTCCT
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	2447	TGTTCCGACAGGGCACTGCTAGAC
	2448	TCGCTGGCTTGGGAAGGCCTTCGT

Γ	2449	GTGCACCTCCGTTGGCGTAGAATG
[	2450	CTCATTTGGGACCGATCGGGTTGC
	2451	GCCAGTGTCTGTCAATGGATGGGA
	2452	TTGCCCGGCAGGTTCTGTGTAATG
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	2454	TCCGTGCGATTGGTCAAGGTTGAT
	2455	AGGGCGTCTCGGTTGAACCTCGGT
	2456	TGACCGTTCAAAGAGCAAGCCAAC
	2457	ACACTCACCTGCTGTCCCTGCTGA
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	2459	CGCCTGCGCAGGTAACTCTCCGCA
	2460	AATCGAATTTCCCAGCGGCTGTTT
	2461	AAGCAGGTGGGATCCTGGGGATCA
	2462	AATCCCAGACTCGCTCTTCGTGCT
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	2464	TACGAGAGCGGGCTTAGACGTCGC
	2465	GCGATTTTGACCCACGGTTATCGA
	2466	AGCTGTATAATTTGGATGGCGCGA
	2467	TCCGCGAGTCTTAGCCGATTGAAC
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	2469	TGTTATTGGCAGTTCGAGCGACAG
	2470	GCGAGCCTTTTTGCTTGGGAAGAG
	2471	AGAAGAAAGGTCAGCGTCGACGA
	2472	CGGGTCGACCCTTGAAGCATAACC
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	2474	GCAGTCCTATCCGGAGCCTGACAA
	2475	AAGGTGCGCTATTTGTTGTCGGTC
	2476	AGTGGAATCCATGCCGACACCTGA
	2477	TACAGGCGTAATTCCTGCGAGGGA
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	2480	GGACACCGCCAACCTCATAGTTGC
	2481	AATGGTGTTCGCCTGGACTACCAC
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	2484	CGTGTCCGTGTGACACTGTCCATG
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	2486	GTAGGCAAAATGGTCGCGATCAAT
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	2490	TTCGATAGGAATACCAGGGCCTGG

	2491	GGCCATTTGAGGAGGATTATGCAA
	2492	ACCTTCTGACCTGGACTTTTGGCG
	2493	GACCAATCCGCAGTTGAGCAACAG
,	2494	TCGGCCACTCACCATGAGTGTAGG
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·	2496	TAACGCAAAGGCGCGATCCTCGCT
	2497	TGGGTGGCCAAATATTACTGCAA
	2498	GTCCTCGAAAGGGGCATCCAAACA
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	2503	AAGCTGCAAAAGGTGAGCGTGGCA
	2504	TCTGACGCGTGCTTGGGAGTCTAT
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	2508	GAGATGGAATTGTTCGCCCAAAGA
	2509	GATGCCTGGATCGGTCTAGCGTCA
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	2511	AGGGCTAATTTACATCGCCTTGCC
	2512	AAGTGCACATCCTCACGAAGCGAT
	2513	TCAGGCAGCCGTAATTAAATGCGC
	2514	CCACTGGGGAAATCGCACTGTTGG
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,	2517	TAGAATTCGCCTCTTCTAGCCGCC
	2518	CATTACTTCCTGCAGATGCGATGC
	2519	GGAAATGCTAGCTGGGGTAATCGC
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	2521	ACAATAGCGGACAGCTCGCCAGAT
	2522	AGTTAGGCTCTCGGTGCGGTCCAT
	2523	TGGGCCTGAGAAGCGGTTAATAGG
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	2526	GCGTGTCCATTCGCTTGAGGTTTC
	2527	ATCCTGAACGGCGATGACCACCAC
	2528	TTACGTTTCTCACCGATCAACGCC
	2529	GCCGTCTTGAGTGGCTAAAAGGCA
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	2532	AACTGCGGTGGTGGAGGCAGGTGC

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	2535	AGGCGCTTAGAACCGTGAAGGCAG
	2536	TGGAAAATTTTGGGAAACGCTGGA
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	2538	TAGACGGCTGGCGAATCTTACGGT
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	2540	GTAGCCGAGAGCAATTTTCACCGC
	2541	GCAAACTCCCCTGCCCTTTAGCCT
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	2543	AGTCTCAGTTCGGCGCAACGGTAG
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	2546	ACGACGGGACGTGCCCTCGTTGAT
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	2548	GATTTATTGGCGCGGTAACGACCT .
	2549	TGTTTTCAGAGGCTACCCTGCCAT
	2550	ACGGTCTCAGGGAAATGCGATCTC
	2551	GACTTGAAACCGCCTATGCCCACA
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	2559	TGCCAGTATTATCCGTGCCAGCCG
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	2563	ATCGGCCGGTATTAGCTGCCCTCC
	2564	CGCAGGTAAGGCCGAGCAATGTTT
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	2568	ACGCGTAAATCAACGACGTGGTCG
	2569	CGTAGGTGGTAAATGTTGGCCCAG
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	2574	ATTGCCGCGTCTCGTATCAAAAGA

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Ì	2577	AATTTTCCCCGATTTGAAGAAGCG
ļ l	2578	TCGCATACTTCGTCGGCGAGTATT
5	2579	CGTGAGCCGTTCTCATCCAAGCGG
Ţ	2580	GCAGAATCGAATTGGGGTGGGTTT
Ţ	2581	CTCTCGGTTTCTCAACCGAGCTCG
j	2582	GACCAGTTAGTGCAATGGTTGGCG
	2583	TTCTCGCACAGCTAGTCAGCCGAT
10	2584	CCAAGTCTTGCGTGAGCGATCCTG
	2585	GCGAAAGTGGCTCGTATTTCTCCA
	2586	CCTCGGGACTGTCCGACTGAAAAA
Ţ	2587	AGGCGAGTGTACGGCTCATCCATG
	2588	GCGGCTCTGCCTACGATATTCACA
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	2590	CATAAAGCACGGACGCGACTTGAT
·	2591	CCCTCAACGTAGGGCGTGACTTTC
	2592	GGGTCATCGTGCAGTTATGCCGTA
	2593	CCCGGATAATCCTTTGTCCAGCCG
20	2594	TCCGATAAGCGAACTCACATGGGT
j	2595	CCTGCTGGTTCGGTCGTAAGCGAA
	2596	GAGGCACCAATCGGTCTGAAAATG
	2597	TACGAAAATGGTTGCGCCGGGTCT
İ	2598	CCCAAAGATCGTATCACCACCCAA
25	2599	AATTGCCGGAAGCAGTCAGAATCG
	2600	CCGAATCAGCCGTATTTGCTGGAA
	2601	CCCGCTTATCTGTACTCGATCGCA
	2602	TTTTGGGGATCCCTATTAGGCGCA
	2603	AGTGACAGCGCTCACCACGGTCCC
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	2605	GCCACATTCTGCTACCTCCGTGTT
	2606	TCCTGTGCTTTGTGACGTGCTAGG
	2607	GACCGCATATACACCTGATGGGCC
	2608	GTAGGCCCGTCGTTAACCATCTCA
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	2610	GCTGATCGGCTTTTCACCGCTATA
	2611	TATCAAATCGTTGGCACGCGACTA
	2612	TTGGCGAGGATCCCTAGGCGTACT
	2613	AAGTCCTGAGGCCGTTCGGTTTCT
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	2617	CACTCCGTCTCGTCCATTAATGCG
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	2619	GAATCAATTTTCCAGGGACGGAC
	2620	GAGAGCATACGCAATGTTCCCTCC
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	2622	GCCTCTCCTATGACGATGACCCAC
	2623	TGGGCGCGCTTTTAAGACTACATC
	2624	CGTTGGGTACCGTTCTATCAACCG
Ì	2625	GCAGTGAGCTGGGTTCAATGCTTC
10	2626	CATCATCCACACAGGCAGGTGTGT
·	2627	AGACAAAGGTCCCCATTGCGAAAT
	2628	ATACTCGTCGACGAGAGCGGAAA
·	2629	GCAGAATGTGTTGTCTTCGCAGCC
	2630	CACCATGCCTTCATCTTGGCCTAG
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	2632	GCGACCTGCGGCGTGTGTATTCTC
•	2633	TCGGTGTATGCACCCTTTCTCCAT
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	2635	TAATGCATGCTCCCGGCTCACGTT
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	2637	CATGGGGTTGTCAGACGACACCTA
	2638	AATCTGATGCTCGCTGTAGGACGG
	2639	TCGAAACCGCGGGAAAGGGTAAAA
	2640	CGCTAGGGCCTAGGGGCACAGACA
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	2642	AGGCATGCACCCATGCTGCCAGAG
	2643	TCCCAATGGCCTGTCAAGCATAAA
	2644	GAACCTGAGCCTTTGCTAGCACGA
	2645	CGAATTGATAGCGTTACGGGCGAA
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	2647	TGCGGTGAAGCAGTCCAAGGTCAG
	2648	TGAGGACCATCCAATGGATCGGTT
	2649	TCGGTGATTGGTAATTTGGATCCG
	2650	GCGGGCAGGTAGTTTGACTGGATG
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	2652	CGGTACAGCGATAGCCAAGGATA
	2653	CCATGCTCTTCGCTGCAGCATACT
•	2654	CGCGGCAAAGATTAATTCCCGGCG
	2655	GAAGACCCGTCCGGGTTTCCATAC
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•	2657	CTGTGCAGGGGGTGGCTCTGTTGA
	2658	TTCAATAATGATCACGAGGCCCCA

<u>-</u>		
	2659	TGGTGATGCGAAGCCTTACCTTTG
	2660	CTGCCACCATCTACGGCGCAGTCT
	2661	TTTGCCCAGCTCTCGCAGAAGTTA
	2662	AATTCAGACGCCACATCGACGGTC
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	2665	ATCCGATGATCAGATACCGGCTGG
	2666	CCATAGACTAGCGCCAGAGTGCCC
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	2669	GGGATTGGCTCTTGGTTGGAAGAA
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	2676	CCGAGTGCGCGAAGTGTCTATGTG
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	2679	CTCCGTACGTATCCCGCGTGATAC
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	2684	TATACGGGCCGAGGTCCGTATTCG
	2685	CCAACGTGTGACGAAGGGCCATTG
	2686	CTGCTCAGCGGTGCTTGAAAGACA
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	2690	TGGATTGGAACCAATCCCGCACAA
	2691	TGCTCTTGTGGTCACTCGAGAGGA
	2692	TTGGGAGCACGGTTACCGCCTGTG
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	2694	AACGCTGAGCGCTCACCTTCACCT
	2695	CCGTCGTAGATCTGGAGGCTTCAA
	2696	GGATGGCATGGGCACACTGTAACC
,	2697	TCGCTCGTAGATATCCTTCACGCC
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·	2699	CGGTGTGCTTCAAATGCCAAAGGA
	2700	TTGTTCAGACTTAGGCGCTGCCCA

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2704   CTCGGGCCTGTACAGCAAAGCCGT	Ĺ	2702	AAGACGATTGCCCACGTGCCAGAG
5         2705         TGCGGCCTAGTGCCTATGATC           2706         CCATCCTTTGCCTTGAGGGTAAGG           2707         AACAACAGCGTAAGACGGACAGGG           2708         GAGGCGTTCAGACTCACAATATT           2709         CGAGGTTAGACGCCTATGACCCAC           10         2710         AACTTGCTATACCGGGGGCAGCAA           2711         CGCGGTGAATCGCATACCACGCG           2712         CACCGAATCAAGCCATATGGCTCT           2713         TTCACAGCTATCCTAGGCGCTGCC           2714         AGAAGCGCGAAGTGTACCCCGCAT           2715         TGCATGGTATTGCCGGATAGG           2716         GGCCGGACCTATGTGAGCACCCCCAT           2717         TCAACCTGAGTCCTGATCCCAAGC           2718         TGCTTACCGTTCAGGCATGACACCCCT           2719         GGAGAGTTACGCGATGAGCCACCT           2719         GGAGAGTTACGGGATGAGCCACCT           2720         CGGTATGTGCGGTTACAGCTTCGT           2721         GTAAGCCGGGTCTACGTTCGCCGT           2722         GCGTAGTGCCGAACCTTA           2723         TCCTCGCGGCTTACAGTCGAACATTCG           2724         CGACGTTCAAAGCGGGAGAGAGG           2725         CGAGGCACCCGAACATTTTCGTCAACTG           2726         CTATTTCGTGCCGCGTCGAACAG           2727         GCTTTCAGTGCACTCCGGACCTC           <		2703	AGGTGAGCGCAGGCATATTGCAGT
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2707   AACAACAGCGTAAGACGGACAGGG   2708   GAGGCGGTCGAGGCTCACAATATT   2709   CGAGGTTAGACGCACACATATT   2709   CGAGGTTAGACGCACACACACACACACACACACACACACA	5	2705	TGCGCGCTAGTGCTGCCTATGATC
2708   GAGGCGTCGAGGCTCACATATT   2709   CGAGGTTAGACGCCTATGACCCAC   2710   AACTTGCTATACCGGGCGCAGCAA   2711   CGCGGTGAATCGCATACACAGCGC   2712   CACCGAATCACAGCGC   2712   CACCGAATCACAGCGCC   2714   AGAAGCCATATGACCCGCCCCCCCCCCCCCCCCCCCCCC	· [	2706	CCATCCTTTGCCTTGAGGGTAAGG
2709   CGAGGTTAGACGCCTATGACCCAC   2710   AACTTGCTATACCGGGCGCAGCAA   2711   CGCGGTGAATCGCATACACAGCGC   2712   CACCGAATCAAGCCATATGGCTCT   2713   TTCACAGCTATCCTAGGCGCTGCC   2714   AGAAGCCGAATTCGCTGCCCGAT   2715   TGCATGGTATTTCCCGCGAT   2715   TGCATGGTATTTGCGTCCGATAGG   2716   GGCCGGACCTATGTGAGATGGAAA   2717   TCAACCTGAGTCCTGAAGC   2718   TGCTTACCGTTCAGGAGGCGTGT   2719   GGAGAGTTACGCGATGAGCCACCT   2719   GGAGAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGATGAGCCACCT   2721   GTAAGCCGGTGTACAGCTTTCGT   2721   GTAAGCCGGTTACAGCTCTGCCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTGCGGGTTACAGCCCCGACCTA   2723   TCCTGCGGGTTACAGCTGAAATTCG   2724   CGACGTTCAAAGCGGGAGAGAGG   2724   CGACGTTCAAAGCGGGAGAGAGG   2726   CTATTTCGTCCGCGTTGAGAT   2726   CTATTTCGTCCGCGTTGCACCGACCGTC   2729   CGAGATGCCTAACTGACACG   2728   ATCACTCGTGGCGAAAAGC   2729   CGAGATGCCTATACCGTGGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTACAGAGCGGAAAAAGCG   2732   TCAGGGCGAGTTTTTTCAGCGCG   2733   TTCGTTCTGTCTATTTTTCCCCG   2734   TGGTTATGCCTAGACAAAAAGCG   2735   TCCAGTGTTAAGCCAATGCGGC   2736   AAAGATCACCGTGAGCAATGCC   2737   TAGCAGGACTTGACCTTAAGCCTACCTAAGCCCCTAC   2738   TGCCACGGTTACCGTGAGCAACCC   2737   TAGCAGGACTTGACCTTAAGCCTGCCTAAGTAATG   2738   TGCCACGGTTACCGTTGAGGCG   2739   TGAGGTGCCCTAAAATCAACCCGCAACCC   2739   TGAGGTGCCCCTAAAATCAACCCGCAACCC   2739   TGAGGGGCTTACCGTTCAAGGCTG   2739   TGAGGGGCTTACAGCCTTAAGTAATG   2740   AGCAAGAGCCAGTATTCGCCACAA		2707	AACAACAGCGTAAGACGGACAGGG
10		2708	GAGGCGGTCGAGGCTCACAATATT
2711   CGCGGTGAATCGCATACACAGCGC   2712   CACCGAATCAAGCCATATGGCTCT   2713   TTCACAGCTATCCTAGGCGCTGCC   2714   AGAAGCGCGAAGTGTACCCGGCAT   15   TGCATGGTATTTGCGTGCGATAGG   2715   TGCATGGTATTTGCGTGCGATAGG   2716   GGCCGGACCTATGTGAAAA   2717   TCAACCTGAGTCCTGATCCCAAGC   2718   TGCTTACCGTCAGGCAGCGTGT   2719   GGACAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGTGACCACCT   2721   GTAAGCCGGTGTACAGCTTTCGT   2721   GTAAGCCGGGTTCGTGTCGCGT   2722   GCGTATGCGGTTACAGCCACCT   2723   TCCTCGCGGCTTACAGCCACCTA   2723   TCCTCGCGGCTTACAGCCACCTA   2724   CGACGTTCAAAGCGGACAGAGG   2725   CGAGGCACCCGACATGTTGAGAT   2726   CTATTCGTGCCGGTCAGACAG   2727   GGCTGCTCAGTGACACGGCACAGG   2728   ATCACTCGTGCGTCAACTG   2728   ATCACTCGTGCGTACACGGACAG   2729   CGAGATGTCTATACCGTGGCAAA   2731   AGCTACCTGACCACACGTC   2729   CGAGATGTCTATACCGTGGCGAA   2731   AGCTACCTGTCTCGAGCAAAAGCG   2732   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCGAGCAAAAGCG   2732   TCAGGGCGAGTTTTTCAGCGGCG   2734   TGGTATGCCCAGGATCCACCTAC   2735   TCTCAGTCGTTAGCCAATGGCGG   2736   AAAGATCACCGTGAGCAATGCC   2737   TAGCAGGACTTGCACTCGTGATGC   2738   TGCCCACGGTACCGTTCAAGGCTG   2739   TGAGGTGCCTCACCTTCAAGCCTGC   2730   TGAGAGGACTTGCACTCGTGATGC   2731   TAGCAGGACTTGCACTCGTGATGC   2732   TAGCAGGACTTGCACTCGTGATGC   2733   TGCCCACGGTACCGTGACCGTTCAAGCCTAC   2736   AAAGATCACCGTGAGCGATCGGC   2737   TAGCAGGACTTGCACTCGTGATGC   2738   TGCCCACGGTACCGTTCAAGCCTG   2739   TGAGGTGCCTCACCTTCAAGCCTGC   2731   TAGCAGGACTTGCACTCGTGATGC   2732   TGAGGGTGCCCCTAAATATGC   2734   TGCCCACGGTACCGTTCAAGCCTG   2736   AAAGATCACCGTGAACCCCCAAAATGCCCCCAAAACCCCCCAAAACCCCCCAAAACCCCCCAAAACCCC		2709	CGAGGTTAGACGCCTATGACCCAC
2712	10	2710	AACTTGCTATACCGGGCGCAGCAA
2713   TTCACAGCTATCCTAGGCGCTGCC   2714   AGAAGCGCGAAGTGTACCCCGCAT   15   2715   TGCATGGTATTTGCGTGCGATAGG   2716   GGCCGGACCTATGTGAGATGGAAA   2717   TCAACCTGAGTCCTGATCCCAAGC   2718   TGCTTACCGTTCAGGGAGGCGTGT   2719   GGAGAGTTACGCGATCAGCCCT   2720   CGGTATGCGGTTACAGCTTCGT   2721   GTAAGCCGGGTTACAGCTTCGT   2722   GCTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAAATTCG   2724   CGACGTTCAAAGCGGGAGAGGAGG   2725   CGAGGCACCCCGACCTA   2726   CTATTTCGTGCGGGTCAAATTCG   2727   GGCTGCTCAGTGACGCCGACCAC   2728   ATCACTCGTGCGGACAACG   2729   CGAGATGTCAACTG   2729   CGAGATGTCAACTGCTCCCGACCGTC   2729   CGAGATGTCCTAACCGTGGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCAACAGCGCCCCATAAATGAAA   2731   AGCTACGTGTCTCAACAGCGCGCCCATAAATGAAA   2731   AGCTACGTGTCTCAGCCAAAAGCG   2732   TCAGGCGAGTTTTTCACCGGCG   2733   TTCGTTCTGTTTTTTTGCCCCG   2734   TGGTATGCCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGGCCAATAGCGG   2736   AAACATCACCGTGGAGCCAATGCGG   2737   TAGCAGGACTTCACCTGTGATGC   2738   TGCCCACGGTACCGTCCAACGCTG   2739   TGAGGTGCTCACCCCCAAACCC   2730   TGAGGTGCTCACCCCCAAACCC   2730   TGAGGTGCTCACCCTCAAGTAATG   2730   TGAGGTGCTTCAAGGCTG   2731   TGCCCACGGTACCGTCCAACGCCTAAGTAATG   2732   TGAGGTGCGTACCTTCAAGCCTG   2733   TGCCCACGGTACCGTCCAACCCC   2734   AGCAAGGGTTACAACCCGCCAACCC   2734   CACAACAGCCAGTATTCGCCACAA		2711	CGCGGTGAATCGCATACACAGCGC
2714   AGAAGCGCGAAGTGTACCCCGCAT   2715   TGCATGGTATTTGCGTGCGATAGG   2716   GGCCGGACCTATGTGAGATGGAAA   2717   TCAACCTGAGTCCTGATCCCAAGC   2718   TGCTTACCGTTCAGGGAGGCGTGT   2719   GGAGAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGTGTACAGCTTTCGT   2721   GTAAGCCGGGTCTCGTGTCGCCGT   2722   GCGTAGTGCGAACAGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAAATTCG   2724   CGACGTTCAAAGCGGGAGAGG   2725   CGAGGCACCCCGACATATTCGTCAAAGCGGAACAGCCCCGACATATTCGTCAAAGCAGCACCCCGACATGTTAGAAT   2726   CTATTTCGTGCCGCGTCGACAAG   2727   GGCTGCTCAGTGACGACAAG   2727   GGCTGCTCAGTGACCGACCATC   2728   ATCACCGTGCGTACCCGACCGTC   2729   CGAGATGTCCTATACCGTGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCGAGCAAAGCG   2732   TCAGGGCGAGTTTTTTCAGCGGCG   2734   TGGTATGCCAAAAGCG   2735   TCCTCGTCTATTTTTGCCCCG   2734   TGGTATGCCAAGAGCACTACCCGCAACCTAC   2735   TCTCAGTCGTTAGGCCAATGGCG   2736   AAAGATCACCGTGGAGCCAATGGCG   2737   TAGCAGGAGCTTCACCTGTGATGC   2738   TGCCACGGTACCGTCACCTCGCCTACCCCCCCCCCCCCC		2712	CACCGAATCAAGCCATATGGCTCT
15		2713	TTCACAGCTATCCTAGGCGCTGCC
2716   GGCCGGACCTATGTGAGATGGAAA   2717   TCAACCTGAGTCCTGATCCCAAGC   2718   TGCTTACCGTTCAGGGAGGCGTGT   2719   GGAGAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGTGTACAGCTTTCGT   2721   GTAAGCCGGGTGTACAGCTTTCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAAATTCG   2724   CGACGTTCAAAGCGGGAGAGGAGG   2725   CGAGGCACCCGACATGTTGAGAT   2726   CTATTTCGTGCCGGTCGACAAG   2727   GGCTGCTCAGTGACGTCAACTG   2728   ATCACTCGTGCGTACCCGACCGTC   2729   CGAGATGTCCTATACCGTGGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCGAGCAAAAGCG   2732   TCAGGGCGAGTTTTTCAGCGGCG   2733   TTCGTTCTGTCTATTTTTGCCCCG   2734   TGGTATGCCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGCCAACGCGCGCGCGCGCGCGCGCGCGC		2714	AGAAGCGCGAAGTGTACCCCGCAT
2717   TCAACCTGAGTCCTGATCCCAAGC   2718   TGCTTACCGTTCAGGGAGGCGTGT   2719   GGAGAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGTGTACAGCTTTCGT   2721   GTAAGCCGGGTCTCGTGTCGCCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAAATTCG   2724   CGACGTTCAAAGCGGAGAGGAGG   2725   CGAGGCACCCGACATGTTGAGAT   2726   CTATTTCGTGCCGCGTTGAGACAAG   2727   GGCTGCTCAGTGACACAG   2728   ATCACTCGTGCGTACCCGACCGTC   2729   CGAGATGTCATACCGTGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCCAAAAGCG   2732   TCAGGGCGAGTTTTTCAGCGGCG   2734   TGGTATGCCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGTTTTTCCCCG   2736   AAAGATCACCGTGAGCGAATCGGC   2737   TAGCAGGACTTGCACTCGTGATGC   2738   TGCCACGGTACCGTTCAAGGCTG   2738   TGCCACGGTACCGTTCAAGGCTG   2739   TGAGGTGCTCGCCCTAAGTAATG   2740   AGCAACAGCCAGTATTCGCCACAA   40   2740   AGCAACAGCCAGTATTCGCCACAA   40   2741   CACAACAGCCAGTATTCGCCACAA	15	2715	TGCATGGTATTTGCGTGCGATAGG
2718   TGCTTACCGTTCAGGAGGCGTGT   2719   GGAGAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGTGTACAGCTTTCGT   2721   GTAAGCCGGGTCTCGTGTCGCCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACAGCCCCGACCTA   2724   CGACGTTCAAAGCGGGAGAGGAGG   2725   CGAGGCACCCGACATGTGAGAT   2726   CTATTTCGTGCCGCGTCGACAAG   2727   GGCTGCTCAGTGACGTGCAAAG   2727   GGCTGCTCAGTGACGTGCAACG   2728   ATCACTCGTGCGTACCCGACCGTC   2729   CGAGATGTCCTATACCGTGGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCGAGCAAAAGCG   2732   TCAGGGCGAGTTTTTCAGCGGCG   2734   TGGTATGCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGCCAACGCTAC   2735   TCTCAGTCGTTAGGCCAATGCGG   2736   AAAGATCACCGTGGAGCACATGCGC   2737   TAGCAGGACTTCCAGCCTAC   2738   TGCCACGGTACCTCGTGATGC   2739   TGAGGTGCGTCGCCCTAAGTAATG   2740   AGCAAGAGCAGTATTCGCCACAA   40   2740   AGCAAGAGCAGTATTCGCCACAA   40   2740   AGCAAGAGCAGTATTCGCCACAA   40   2740   AGCAACAGCCAGTATTCGCCACAA		2716	GGCCGGACCTATGTGAGATGGAAA
2719 GGAGAGTTACGCGATGAGCCACCT  2720 CGGTATGCGGTGTACAGCTTTCGT  2721 GTAAGCCGGGTCTCGTGTCGCCGT  2722 GCGTAGTGCGAACGCCCCGACCTA  2723 TCCTCGCGGCTTACGTCAAATTCG  2724 CGACGTTCAAAGCGGGAGAGAGG  2725 CGAGGCACCCCGACATGTTGAGAT  2726 CTATTTCGTGCCGCGTCGGACAAG  2727 GGCTGCTCAGTGACGTCAACTG  2728 ATCACTCGTGCGTACCCGACCGTC  2729 CGAGATGTCCTATACCGTGGCGAA  30 2730 TCACACCGAGCCCCATAAATGAAA  2731 AGCTACGTGTCTCGAGCAAAGCG  2732 TCAGGGCGAGTTTTTCAGCGGCG  2733 TTCGTTCTGTCTATTTTTCCCCG  2734 TGGTATGCCCAGGATCCAGCCTAC  35 2735 TCTCAGTCGTTAGGCCAATGGCGG  2737 TAGCAGGACTTGCACTCGTGATGC  2738 TGCCACGGTACCCGTGATGC  2739 TGAGGTGCCTAAGTAATG  40 2740 AGCAAGAGCTATTCCCCACAA		2717	TCAACCTGAGTCCTGATCCCAAGC
2720 CGGTATGCGGTGTACAGCTTTCGT 2721 GTAAGCCGGGTCTCGTGTCGCCGT 2722 GCGTAGTGCGAACGCCCCGACCTA 2723 TCCTCGCGGCTTACGTCAAATTCG 2724 CGACGTTCAAAGCGGGAGAGGAGG 2725 CGAGGCACCCGACATGTTGAGAT 2726 CTATTTCGTGCCGCGTCGACAAG 2727 GGCTGCTCAGTGACGTCAACTG 2728 ATCACTCGTGCGTACCCGACCGTC 2729 CGAGATGTCCTATACCGTGGCGAA 30 2730 TCACACCGAGCCCCATAAATGAAA 2731 AGCTACGTGCTCTCGAGCAAAAGCG 2732 TCAGGGCGAGTTTTTCAGCGGCG 2733 TTCGTTCTGTCTATTTTTGCCCCG 2734 TGGTATGCCCAGGATCCAGCCTAC 35 2735 TCTCAGTCGTTAGGCCAATGGCGG 2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTCACTGTGATGC 2738 TGCCCACGGTACCGTCAGCCTG 2739 TGAGGTGCGTCCCCAAGTAATG 40 2740 AGCAAGGCTATTCGCCACAA		2718	TGCTTACCGTTCAGGGAGGCGTGT
2721   GTAAGCCGGGTCTCGTGTCGCCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAAATTCG   2724   CGACGTTCAAAGCGGGAGAGGAGG   2725   CGAGGCACCCGACATGTTGAGAT   2726   CTATTTCGTGCCGCGTCGGACAAG   2727   GGCTGCTCAGTGACGTGCACACG   2728   ATCACTCGTGCGTACCCGACCGTC   2729   CGAGATGTCCTATACCGTGGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCGAGCAAAAGCG   2732   TCAGGGCGAGTTTTTCAGCGGCG   2733   TTCGTTCTGTCTATTTTTGCCCCG   2734   TGGTATGCCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGGCCAATGGCGG   2736   AAAGATCACCGTGGAGCCAATGGCGG   2737   TAGCAGGACTTGCACTCGTGATGC   2738   TGCCCACGGTACCGTTCAAGGCTG   2739   TGAGGTGCTGCCCTAAGTAATG   40   2740   AGCAAGGGTTACAACCCGCAACCC   2741   CACAACAGCCAGTATTCGCCACAA		2719	GGAGAGTTACGCGATGAGCCACCT
2722   GCGTAGTGCGAACGCCCCGACCTA	20	2720	CGGTATGCGGTGTACAGCTTTCGT
2723   TCCTCGCGGCTTACGTCAAATTCG	{	2721	GTAAGCCGGGTCTCGTGTCGCCGT
2724 CGACGTTCAAAGCGGGAGAGGG 2725 CGAGGCACCCCGACATGTTGAGAT 2726 CTATTTCGTGCCGCGTCGGACAAG 2727 GGCTGCTCAGTGACGTGTCAACTG 2728 ATCACTCGTGCGTACCCGACCGTC 2729 CGAGATGTCCTATACCGTGGCGAA 30 2730 TCACACCGAGCCCCATAAATGAAA 2731 AGCTACGTGTCTCGAGCAAAAGCG 2732 TCAGGGCGAGTTTTTCAGCGGCG 2733 TTCGTTCTGTCTATTTTTGCCCCG 2734 TGGTATGCCCAGGATCCAGCTAC 35 2735 TCTCAGTCGTTAGGCCAATGGCGG 2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCACAC		2722	GCGTAGTGCGAACGCCCGACCTA
2725   CGAGGCACCCCGACATGTTGAGAT		2723	TCCTCGCGGCTTACGTCAAATTCG
2726   CTATTTCGTGCCGCGTCGGACAAG		2724	CGACGTTCAAAGCGGGAGAGGAGG
2727   GGCTGCTCAGTGACGTGTCAACTG	25	2725	CGAGGCACCCGACATGTTGAGAT
2728 ATCACTCGTGCGTACCCGACCGTC 2729 CGAGATGTCCTATACCGTGGCGAA 30 TCACACCGAGCCCCATAAATGAAA 2731 AGCTACGTGTCTCGAGCAAAAGCG 2732 TCAGGGCGAGTTTTTTCAGCGGCG 2733 TTCGTTCTGTCTATTTTTGCCCCG 2734 TGGTATGCCCAGGATCCAGCCTAC 35 TCTCAGTCGTTAGGCCAATGCGG 2735 TCTCAGTCGTTAGGCCAATGCGG 2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2726	CTATTTCGTGCCGCGTCGGACAAG
2729   CGAGATGTCCTATACCGTGGCGAA     2730		2727	GGCTGCTCAGTGACGTGTCAACTG
2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCGAGCAAAAGCG   2732   TCAGGGCGAGTTTTTTCAGCGGCG   2733   TTCGTTCTGTCTATTTTTGCCCCG   2734   TGGTATGCCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGGCCAATGGCGG   2736   AAAGATCACCGTGGAGCGATCGGC   2737   TAGCAGGACTTGCACTCGTGATGC   2738   TGCCCACGGTACCGTCAAGGCTG   2739   TGAGGTGCGTCGCCCTAAGTAATG   2740   AGCAAGGGTTACAACCCGCAACCC   2741   CACAACAGCCAGTATTCGCCACAA		2728	ATCACTCGTGCGTACCCGACCGTC
2731 AGCTACGTGTCTCGAGCAAAAGCG 2732 TCAGGGCGAGTTTTTTCAGCGGCG 2733 TTCGTTCTGTCTATTTTTGCCCCG 2734 TGGTATGCCCAGGATCCAGCCTAC 35 TCTCAGTCGTTAGGCCAATGGCGG 2735 TCTCAGTCGTTAGGCCAATGGCGG 2736 AAAGATCACCGTGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2729	CGAGATGTCCTATACCGTGGCGAA
2732 TCAGGGCGAGTTTTTTCAGCGGCG 2733 TTCGTTCTGTCTATTTTTGCCCCG 2734 TGGTATGCCCAGGATCCAGCCTAC 2735 TCTCAGTCGTTAGGCCAATGGCGG 2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA	30	2730	TCACACCGAGCCCCATAAATGAAA
2733 TTCGTTCTGTCTATTTTTGCCCCG 2734 TGGTATGCCCAGGATCCAGCCTAC 35 TCTCAGTCGTTAGGCCAATGGCGG 2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2731	
2734 TGGTATGCCCAGGATCCAGCCTAC  2735 TCTCAGTCGTTAGGCCAATGGCGG  2736 AAAGATCACCGTGGAGCGATCGGC  2737 TAGCAGGACTTGCACTCGTGATGC  2738 TGCCCACGGTACCGTTCAAGGCTG  2739 TGAGGTGCGTCGCCCTAAGTAATG  40 2740 AGCAAGGGTTACAACCCGCAACCC  2741 CACAACAGCCAGTATTCGCCACAA		2732	TCAGGGCGAGTTTTTTCAGCGGCG
2735 TCTCAGTCGTTAGGCCAATGGCGG 2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2733	TTCGTTCTGTCTATTTTTGCCCCG
2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2734	TGGTATGCCCAGGATCCAGCCTAC
2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA	35	2735	TCTCAGTCGTTAGGCCAATGGCGG
2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2736	AAAGATCACCGTGGAGCGATCGGC
2739 TGAGGTGCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2737	TAGCAGGACTTGCACTCGTGATGC
40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA	,	2738	TGCCCACGGTACCGTTCAAGGCTG
2741 CACAACAGCCAGTATTCGCCACAA		2739	TGAGGTGCGTCGCCCTAAGTAATG
	40	2740	AGCAAGGGTTACAACCCGCAACCC
2742 GGCAACACCATACTCGACGAGCTC		2741	CACAACAGCCAGTATTCGCCACAA
		2742	GGCAACACCATACTCGACGAGCTC

2743   GGCTGGATTGACAATTTAGCCCCT   2744   CGTGAGAAATGCTACACGCGTCAG   2745   CGCATCTGCCCCATTTTGTTCCTT   2746   GTCGGCCTAGTCGGCAGAACGGTG   2747   TCGACACGCGTAGCAGACACGGTG   2748   TCCCTCACCTTCCAAAAATGTGCT   2749   GGCAAGAACAGACACG   2750   TCGTCCTGGTACGACACACACCG   2750   TCGTCCTGGTACGACACACACCG   2750   TCGTCCTGGTACGACTTCCAAGA   2751   TGGCGGTTGCATGTAGTACAACA   2752   CCTCGCGTGAGAACACGACCG   2753   ACTTCCGCCACAGAATGCGGCCAG   2754   GTGTAGAGCTTGGGTAGACCACAC   2755   ACTTCCGCCACAGAATGCGGCCAG   2754   GTGTAGAGCTTGGGTAGACCACAT   2755   ACTTCCGCCACAGAATGCGGCCAG   2754   GTGTAGAGCTTGGGTAGACCACAT   2756   ATGAGCCTGGGATGAACACACT   2758   GCGCATGAAAACTACGACCGGT   2759   AAAGATGGTCAACGACACGACG   2759   AAAGATGGTCATGGAGCGCT   2759   AAAGATGGTCATGGAGCGCT   2760   ATCCTGGGCACGAGCGGATTTATC   2761   TCACCGCATTTGATAGTACGCCA   2762   TGGTGGAGCGGACTCTGGTTAT   2763   CACAATGAAAAACATGGCCCA   2764   CCTTGCCGCGCTTGGTGTAT   2766   ACCGCGTTTGCCACACGAAACA   2766   ACCGCGGTTACCCACCACACAC   2766   ACCGCGGTTACCCACCCACCACACCACCACCACCACCCAC			
2745 CGCATCTGCCCATTTTGTTCCTT 2746 GTCGGCCTAGTCGGCAGAACGGTG 2747 TCGACACGCGTAGCAGCGTGGACA 2748 TCCCTCACCTTCCAAAAATGTGCT 2749 GGGCAAGAACATGAGACAGACCG 2750 TCGTCCTGGTACAACATGAGACCAG 2751 TGGCCGTGTACAACTGAGACCAGACCG 2752 CCTCGCGTGAGAAAAACCGTCCG 2753 ACTTCCGCACAAAATGAGCCCG 2754 GTGTAGAGCTTGAGACACAGACCG 2755 CCTCGCGTGAGTAAAAACCGTCCG 2755 CGCAGCATCGAGATAGACCCCGTT 2755 CGCAGCATCGAGATTACCACAT 2756 ATGAGCCTGGATTAACACACAT 2757 CCTGGCATAAGTGCCCACAT 2758 GCGCATAAAAACTACGACGACGAC 2759 AAAGATGGCCGACATTTACCACACACACACACACACACAC		2743	GGCTGGATTGACAATTTAGCCCCT
2746   GTCGGCCTAGTCGGCAGAACGGTG		2744	CGTGAGAAATGCTACACGCGTCAG
5         2747         TCGACACGCGTAGCAGCGTGGACA           2748         TCCCTCACCTTCCAAAAATGTGCT           2749         GGGCAAGAACATGAGAACAGACCG           2750         TCGTCCTGGTAGCACTTGCGTAGA           2751         TGGCGTTGCATGTGATCAAGA           2752         CCTCGCGTGAGTAAAAAACCGTCCG           2753         ACTTCCGCCACAGAATGCGGCCAG           2754         GTGTAGAGCTTGGGTAGCCCCGTT           2755         CGCAGCATCGGGATGACACACAT           2756         ATGAGCCTGGGATGACCCCGTT           2757         CCTGGCATAAGTCCGCTGGT           15         2757         CCTGGCATAAAGTCCGCTGGT           2758         GCGCATGAAAAACTAGCACGGACG           2759         AAAGATGGGTCGATGGACCGTCT           2760         ATCCTGGGCACGAGCGGATTTATC           2761         TCACCGCATTTGATAGTTACGCAA           2762         TGGTGGAGCGACTCTGGTGTTAT           2763         CACAATGAAAAACATGGCCCCA           2764         CCTTGCCGCGCTTGTGTTACCAAC           2765         CCGAGACCTTTGCCAACGAACAC           2766         ACCGCGGTGAACACCTGAGCACACCACAC           2767         GTCGTACGCTTACCCTGAGCGGAA           2768         TCGTAATTTGACCGACAGCACACCACAG           2769         CTAGACGGATACCCTGAGCGGA           27		2745	CGCATCTGCCCCATTTTGTTCCTT
2748   TCCCTCACCTTCCAAAAATGTGCT		2746	GTCGGCCTAGTCGGCAGAACGGTG
2749   GGGCAAGAACATGAGAACAGACCG   2750   TCGTCCTGGTACGACTTGCGTAGA   2751   TGGCGTTGCATCATGTCATGATCAAG   2751   TGGCGTTGCATGATCAAG   2752   CCTCGCGTGAGATAAAACCGTCCG   2753   ACTTCCGCCACAGAATGCGGCCAG   2754   GTGTAGAGCTTGAGTACACCACT   2755   CGCAGCATCCGAGTTAACACACAT   2756   ATGAGCCTGGGATGATCCGCTGGT   2757   CCTGGCATAAGTCCGCACATGCTT   2758   GCGCATAAGTGCCGCACTGCTT   2758   GCGCATGAAAAACTACGACGGACG   2759   AAAGATGGGTCGATGATCTT   2760   ATCCTGGGCATGAGAACCGACGGACG   2761   TCACCGCATTTGATAGTACCGCA   2761   TCACCGCATTTGATAGTACCGCA   2762   TGGTGGAGCGGACTCTGGTGTAT   2763   CACAATGAAAAACAATGGCCCCA   2764   CCTTGCCGCGCTTGTGGTACCAAC   2765   CCGAGACCTTTGCACCACACACAC   2766   ACCGCGGTTACACCTCAGACAGA   2766   ACCGCGGTTACCACCGACAGAA   2766   ACCGCGGTTACCCTCAGCCAGA   2768   TCGTAATTTGACCGACACACGCAG   2769   CCTAGACGGATACCCTGAGCGGAA   2770   AAGCGACAGCAGAGATCCCTGAGCGGT   2771   GCGTGACCACACGCATGCCT   2772   GTCGGAGACCACTGGTACCGT   2773   TACCCTCCGGACCAGTTAATGA   2774   TATCCGCACACGTTAATGA   2775   CATCAGTCGGCCACCTTCAGCCT   2776   CGGATTAATGCATTCACCTTCAGCCT   2776   CGGATTAATGCATTCACCTTCAGCCT   2776   CGGATTAATGCATTCACCTTCAGCCT   2776   CGGATTAATGCATTTCCTCCGGAAT   2777   TTCGTCGTGCCAACACGCTTCAATGA   2777   TTCGTCGTGCCAACACAGGTTCCACCTTCAGCCT   2776   CGGATTAATGCCATTCACCTTCAGCCT   2776   CGGATTAATGCCATTCACCTTCAGCCT   2776   CGGATTAATGCCATTCACCTTCAGCCT   2777   TTCGTCTGCCAACACAGGTTT   2780   CGCCGGAAACATTAACCAGGTT   2780   CGCCGGAAACCATCAGAGTAATACACTTCACTTCACCTT   2780   CGCCGGAAACCATTGAAGTTACTA   2781   TCGCTTACCGCTTCCTCTCACTT   2780   CGCCGGAAACCATTGAAGTTACCTACTACCTTCACCTT   2781   TCGCTTACCGCTTCCTCTCACTT   2780   CGCCGGAAGCCATTGAAGCAACACCACAGGTTCCTTCACCTT   2780   CGCCGGAAGCCATTGAAGTTAACTA   2781   TCGCTTACCGCTTCCTCTCACTT   2780   CGCCGGAAGCCATCAGGAACAACAC   2783   AGAGGAAGGAGGAGCAACACCACACACACACACACACAC	5	2747	TCGACACGCGTAGCAGCGTGGACA
2750   TCGTCCTGGTACGACTTGCGTAGA   2751   TGGCGGTTGCATGATGATCAAG   2752   CCTCGCGTGAGTAAAAACCGTCCG   2753   ACTTCCGCCACAGAATGCGGCCAG   2754   GTGTAGAGCTTGGGTAGCCCCGTT   2755   CGCAGCATCCAGATTACAACACAT   2756   ATGAGCCTGGGATTAACACACAT   2756   ATGAGCCTGGGATGCCGCTGGT   2757   CCTGGCATAACTGCGCTGGT   2758   GCGCATGAAAAACTACGACGGACG   2759   AAAGATGGGTCGATGGTT   2760   ATCCTGGGCATAGGTACGCGACG   2761   TCACCGCATTTGATAGTTACGCGA   2762   TGGTGGACGAGCGGATTTATC   2761   TCACCGCATTTGATAGTTACGCA   2762   TGGTGGACGAACACACCCA   2764   CCTTGCCGCGCTTTGTATATCCCACACCACACACC   2764   CCTTGCCGCGCTTTGTGTACCACAC   2765   CCGAGACCTTTGCCACACGAAAGA   2766   ACCGCGGTGTACACCTGAGCAGAC   2768   TCGTAATTTGACCGACACACGCAG   2769   CCTAGACGATACCCTGAGCAGAC   2769   CCTAGACGACACACGCAG   2770   AAGCGACAGCACACGCAG   2771   GCGTGACGATATCACCTGAGCGGT   2772   GTCGGAGCCACACGCGTTACTGC   2774   TACCCTCCGGACCAGTGTACGC   2774   TACCCTCCGGACCAGCTGTAATGA   2775   CATCAGTCGGCCTTCCGCCT   2776   CGGATTAATGCATTCACCTTCAGCCT   2776   CGGATTAATGCATTCCCCCCT   2776   CGGATTAATGCAAGCTAATGCAAGCTATCCCCTCCCCCT   2776   CGCATCAGGATCACACGATACAGGTT   2780   CCACTACGGATCAGCACACGTACCTTC   2779   GGCCGAAGCCACCAGTAACAGGTT   2780   CGCGCGAAGCATCAGCACAGCTATCACTACTACTACCCTCCCCCCCC		2748	TCCCTCACCTTCCAAAAATGTGCT
2751   TGGCGGTTGCATGTGATCAAG	ĺ	2749	GGGCAAGAACATGAGAACAGACCG
10   2752   CCTCGCGTGAGTAAAAACCGTCCG   2753   ACTTCCGCCACAGAATGCGGCCAG   2754   GTGTAGAGCTTGGGTAGCCCCGTT   2755   CGCAGCATCCGAGTTAACACACAT   2756   ATGAGCCTGGGATGATCCGCTGGT   2757   CCTGGCATAAGTGCCGACATGCTT   2758   GCGCATGAAAAACTACGACGGACG   2759   AAAGATGGGTCGATGGAGCGGACT   2760   ATCCTGGGCACGAGCGGACTTATC   2761   TCACCGCATTTGATAGTTACCGAA   2762   TGGTGGAGCGGACTCTATT   2763   CACAATGAAAAACAATGGCCCCA   2764   CCTTGCCGCGCTTGGTGTACCAAC   2765   CCGAGACCTTTGCCACAGCAAAC   2765   CCGAGACCTTTGCCACAGCAAAC   2766   ACCGCGGTGTAACCCTGAGCAGA   2766   ACCGCGGTTACCGCAGCAGAAA   2766   ACCGCGGTTACCGCAGCAGAAA   2766   ACGACGGATACCCTGAGCAGA   2769   CCTAGACGGATACCCTGAGCAGA   2769   CCTAGACGGATACCCTGAGCGGAA   2770   AAGCGACAGCAGAGGTTCAGTCGC   2771   GCGTGGACGATATCACCTGGGCGT   2772   GTCGAAGAGCAGCAGCTTTACAGTCGC   2774   TATCCGCACGGTAATGA   2775   CATCAGTCGGGCTACCTTCAGCCT   2776   CGGATTAATGCATTTCACCTTCAGCCT   2776   CGGATTAATGCATTTCCTCGGAAT   35   2777   TTCGTCGCACAGCAACACACACCCT   2776   CGGATTAATGCATTTCCTCGGAAT   2776   CGGATTAATGCATTTCCTCGGAAT   2776   CGGATTAATGCATTTCCTCGGAAT   2776   CGGATTAATGCATTTCCTCGGAAT   2776   CGGATTAATGCAATTACAAGTTACACTTCCTCGGAAT   2776   CGGATTAATGCAATTACAAGTTACACTTCCTCGGAAT   2776   CGGATTAATGCAATTACAAGTTACAGTTCCTCTTCCTCGGAAT   2778   CCACTACGGATCACACACACACACACTAATGCAAG   2778   CCACTACGGATCACACACACACACACTAATCCAAG   2778   CCACTACGGATCACACACACACACACTAATCCAAC   2778   CGCCGGAAGCCACACACACACACACACACACACACACAC		2750	TCGTCCTGGTACGACTTGCGTAGA
2753   ACTTCCGCCACAGAATGCGGCCAG   2754   GTGTAGAGCTTGGGTAGCCCCGTT   2755   CGCAGCATCCGAGTTAACACACAT   2756   ATGAGCCTGGGATGATCCGCTGGT   2757   CCTGGCATAAGTGCCGCACATGCTT   2758   GCGCATGAAAACTACGACGGACG   2759   AAAGATGGGTCGATGAGCGCTCT   2760   ATCCTGGGCACGAGCGGATTATC   2761   TCACCGCATGTATACTCACGACG   2752   AAAGATGGACGGACGTTTATC   2763   CACAATGAAAAACAATGGCCCCA   2764   CCTTGCCGCGCTTGTGGTACCAAC   2765   CCGAGACCTTTGCCACACGAAAGA   2766   ACCGCGGTGTACCACAC   2766   ACCGCGGTTACCGCAGCAGAA   2766   ACCGCGGTTACCGCAGCAGAA   2768   TCGTAATTTGACCGAACACACC   2769   CCTAGACGAACACCTGAGCAGA   2769   CCTAGACGAACACCTGAGCAGC   2770   AAGCGACACACAGCAGAAGA   2770   AAGCGACAGCAGAGGTTCAGTCGC   2771   GCGTGGACGATATCACCTGGGCGT   2772   GTCGGAGAGCCAGTGGTACGCT   2773   TACCCTCCGGACCAGCTGAACAA   2774   TATCCGCACGGTAATGA   2775   CATCAGTCGGCTTCCTCAGCCT   2776   CGGATTAATGCTTTCCTCGCAAT   2777   TTCGTCGCACACCAAGCTAGCAAG   2778   CCACTACGAACCAAGCTAACAAGCTT   2778   CCACTACGAACCAAGGTTC   2778   CGCCGAAGACCACACAGGTTC   2778   CGCCGAAGCCACCAGTAACAAGTT   2780   CGCGCGGAAGCATTGAACTTACTA   2781   TCGGCTTACCGCTTCGACCTT   2782   GACTGACGATCACCACACACACACACACACACACACACAC		2751	TGGCGGTTGCATGTGATGATCAAG
2754   GTGTAGAGCTTGGGTAGCCCCGTT   2755   CGCAGCATCCGAGTTAACACACAT   2756   ATGAGCCTGGGATGATCCGCTGGT   2757   CCTGGCATAAGTGCCGACATGCTT   2758   GCGCATGAAAAACTACGACGGACG   2759   AAAGATGGGTCGATGGAGCGTCT   2760   ATCCTGGGCACGACGGACG   2761   TCACCGCATTTGATAGTTACCGCA   2762   TGGTGGAGCGACTCTGATGTATC   2763   CACAATGAAAACAATGGCCCCA   2764   CCTTGCCGCGCTTGTGGTACCAAC   2765   CCGAGACCTTGGCACGAGCG   2766   ACCGCGGTGTACCCACCGAAGA   2766   ACCGCGGTGTACCCACCGAAGA   2766   ACCGCGGTGTACCCACCGAGAAGA   2766   ACCGCGGTTACCGCAGCGAGA   2768   TCGTAATTTGACCGACACGCAG   2769   CCTAGACGGATACCCTGAGCGGA   2769   CCTAGACGGATACCCTGAGCGGA   2770   AAGCGACAGCAGAGGTTCAGTCGC   2771   GCGTGGACGATATCACCTGGGCGT   2772   GTCGGACGACACAGCGTGTACGC   2774   TATCCGCACGAGCTGTAATGA   2775   CATCAGTCGGCTACCTTCAGCCT   2776   CGGATTAATGCCTTTCCTCGGAAT   2776   CGGATTAATGCCTTTCCTCGGAT   2776   CGGATTAATGCCTTTCCTCGGAAT   2776   CGGATTAATGCCTTTCCTCGGAAT   2776   CGGATTAATGCCTTTCCTCGGAAT   2776   CGGATTAATGCCTTTCCTCGGAAT   2776   CGGATTAATGCCTTTCCTCGGAAT   2777   TTCGTCGTGCCAAGCTAATGCAAG   2778   CCACTACGGATCAACACAGGTT   2778   CCACTACGGATCAACACACAGGTTCCCTTGCTCTGACTT   2778   CGCCGAGAACACACCAGTTAACAAGTT   2781   TCGGCTTACCGCTTCGTCTGACTT   2782   GACTGACGTCAAGGCAACACACACACACACACACACACAC	10	2752	CCTCGCGTGAGTAAAAACCGTCCG
2755		2753	ACTTCCGCCACAGAATGCGGCCAG
2756   ATGAGCCTGGATGATCCGCTGGT		2754	GTGTAGAGCTTGGGTAGCCCCGTT
15   2757   CCTGGCATAAGTGCCGACATGCTT   2758   GCGCATGAAAAACTACGACGGACG   2759   AAAGATGGGTCGATGGAGACGTCT   2760   ATCCTGGGCACGAGCGGATTTATC   2761   TCACCGCATTTGATAGTTACGCGA   2762   TGGTGGAGCGGACTCTGGTGTTAT   2763   CACAATGAAAAACAATGGCCCCA   2764   CCTTGCCGCGCTTGTGGTACCAAC   2765   CCGAGACCTTTGCACACGAAAGA   2766   ACCGCGGTGTACACCTGAGCAGCG   2767   GTCGTACGCTTACCGCAGCAGAGA   2768   TCGTAATTTGACCGACACGCAGA   2769   CCTAGACGGATACCCTGAGCAGA   2770   AAGCGACAGCAGAGATCACCTGAGCGAA   2771   GCGTGGACGATACCCTGAGCGAT   2772   GTCGGAGAGCCAGTGGTACGCCT   2773   TACCCTCCGGACCAGCTGTACGC   2774   TATCCGCACGGACAGTTGCA   2775   CATCAGTCGGCTTCAGCCT   2776   CGGATTAATGCATTCACCT   2776   CGGATTAATGCATTCACCT   2776   CGGATTAATGCATTCAGCCT   2776   CGGATTAATGCAAGTTTCCTCGGAAT   2777   TTCGTCGTGCCAAGCTAATGCAGCT   2778   CCACTACGGATCACACAGGTTC   2779   GGCCGAGACCACCAGTAACAGGTT   2780   CGCGCGGAAGCATTGAAGTTACTA   2781   TCGGCTTACGCTTCGTCTGACCT   2782   GACTGACGTCAAGCAACAC   2783   AGAGGAAGGAGGGGCTTGACAGA		2755	CGCAGCATCCGAGTTAACACACAT
2758   GCGCATGAAAAACTACGACGGACG   2759   AAAGATGGGTCGATGGAAGCGTCT   2760   ATCCTGGGCACGAGCGGATTTATC   2761   TCACCGCATTTGATAGTTACGCGA   2762   TGGTGGAGCGGACTCTGGTGTTAT   2763   CACAATGAAAAAACAATGGCCCCA   2764   CCTTGCCGCGCTTGTGGTACCAAC   2765   CCGAGACCTTTGCCACACGAAAGA   2766   ACCGCGGTGTACACCTGAGCAGGC   2767   GTCGTACGCTTACCGCAGCGGAGA   2768   TCGTAATTTGACCGACACGCAG   2769   CCTAGACGGATACCCTGAGCGGAA   2770   AAGCGACAGCAGAGGTCAGCCGCG   2771   GCGTGGACGATACCCTGAGCGGT   2772   GTCGGAGAGCCAGTGGTACGCTT   2773   TACCCTCCGGACCAGCTGTAATGA   2774   TATCCGCACGGTATAGCAGTTCAGCT   2775   CATCAGTCGGGCTACCTTCAGCCT   2776   CGGATTAATGCATTCCTCCGGAAT   35   2777   TTCGTCGTGCCAAGCTAATGCAG   2778   CCACTACGGATCAGCACAGGTT   2780   CGCGCGGAAGCATGAACAGGTT   2780   CGCGCGGAAGCAACACACACACACACACACACACACACA		2756	ATGAGCCTGGGATGATCCGCTGGT
2759 AAAGATGGGTCGATGGGAGCGTCT 2760 ATCCTGGGCACGAGCGGATTTATC 2761 TCACCGCATTTGATAGTTACGCGA 2762 TGGTGGAGCGGACTCTGGTGTTAT 2763 CACAATGAAAAAACAATGGCCCCA 2764 CCTTGCCGCGCTTGTGGTACCAAC 2765 CCGAGACCTTTGCCACACGAAAGA 2766 ACCGCGGTGTACACCTGAGCAGGC 2767 GTCGTACGCTTACCGCAGCGAGA 2768 TCGTAATTTGACCGACACACGCAG 2769 CCTAGACGGATACCCTGAGCGGAA 2770 AAGCGACAGAGAGTTCAGTCGC 2771 GCGTGGACGATATCACCTGGGCGT 30 2772 GTCGGAGAGCCAGCGCGTT 2773 TACCCTCCGGACCAGCTGTAATGA 2774 TATCCGCACGGTATAGCAGTTCAG 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCATTCCTCGGAAT 35 2777 TTCGTCGTGCCAAGCTAATGCAG 2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTGTACTACAG 2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGACCTT 3782 GACTGACGTCAGGCTACCATTCAACAC 3783 AGAGGAAGGAGGGGCTGTGACAGC	15	2757	CCTGGCATAAGTGCCGACATGCTT
2760 ATCCTGGGCACGAGCGGATTTATC 2761 TCACCGCATTTGATAGTTACGCGA 2762 TGGTGGAGCGACTCTGGTGTTAT 2763 CACAATGAAAAAACAATGGCCCCA 2764 CCTTGCCGCGCTTGTGGTACCAAC 2765 CCGAGACCTTTGCCACACGAAAGA 2766 ACCGCGGTGTACACCTGAGCAGGC 2767 GTCGTACGCTTACCGCAGCGAGA 2768 TCGTAATTTGACCGACACGAGA 2769 CCTAGACGGATACCCTGAGCGGAA 2770 AAGCGACAGCAGAGGTCAGTCAGC 2771 GCGTGGACGATACCCTGAGCGGT 2771 GCGTGGAGAGCCAGTCAGTCGC 2771 GCGTGGAGAGCCAGTTACACTGGCGTT 2773 TACCCTCCGGACCAGCTTAATGA 2774 TATCCGCACGGTAATGA 2775 CATCAGTCGGCTTACTGCAT 2776 CGGATTAATGCTTTCCTCGGAAT 35 2777 TTCGTCGTGCCAAGCTAATGCAGTTC 2778 CCACTACGGATCACCAGCTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAACCACCAGTAACAGGTT 2781 TCGGCTTACCGCTTCGTCTGACTT 2781 TCGGCTTACCGCTTCGTCTGACTT 2782 GACTGACGTCAAGGCAAGCAACAC 2783 AGAGGAAGGAGGGGCTGTGACAGA		2758	GCGCATGAAAAACTACGACGGACG
2761 TCACCGCATTTGATAGTTACGCGA 2762 TGGTGGAGCGACTCTGGTGTAT 2763 CACAATGAAAAAACAATGGCCCCA 2764 CCTTGCCGCGCTTGTGGTACCAAC 2765 CCGAGACCTTTGCCACACGAAAGA 2766 ACCGCGGTACACCTGAGCAGGC 2767 GTCGTACGCTTACCGCAGCGAGA 2768 TCGTAATTTGACCGACACGCAG 2769 CCTAGACGGATACCCTGAGCAGGA 2770 AAGCGACAGCAGAGTTCAGTCGC 2771 GCGTGGACGATATCACCTGGGCGT 2771 GCGTGGAGCCAGTACACCTGAGCGT 2772 GTCGGAGAGCCAGTGTACGCTT 2773 TACCCTCCGGACCAGCTGAATGA 2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGCTACTCCAGCCT 2776 CGGATTAATGCTTTCCTCGGAAT 35 2777 TTCGTCGTGCCAAGCTAATGCAGTC 2778 CCACTACGGATCAGCACAGGTTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAACCACCAGTAACAGGTT 2781 TCGGCTTACCGCTTCGTCTGACTT 2782 GACTGACGTCAAGGCAAGCAACAC 2783 AGAGGAAGGAGGAGCAACAC		2759	AAAGATGGGTCGATGGGAGCGTCT
2762 TGGTGGAGCGGACTCTGGTGTAT  2763 CACAATGAAAAAACAATGGCCCCA  2764 CCTTGCCGCGCTTGTGGTACCAAC  2765 CCGAGACCTTTGCCACACGAAAGA  2766 ACCGCGGTGTACACCTGAGCAGGC  2767 GTCGTACGCTTACCGCAGCAGGA  2768 TCGTAATTTGACCGACACACACAGA  2769 CCTAGACGGATACCCTGAGCGGAA  2770 AAGCGACAGCAGAGGTTCAGTCGC  2771 GCGTGGACGATACCCTGAGCGGAA  2772 GTCGGAGAGCCAGTGGTACGCTT  2773 TACCCTCCGGACCAGCTTAATGA  2774 TATCCGCACGGTATAGCAGTTGCA  2775 CATCAGTCGGGCTACCTTCAGCCT  2776 CGGATTAATGCCTTTCCTCGGAAT  2777 TTCGTCGTGCCAAGCTAATGCAAG  2778 CCACTACGGATCACCAGGTGTC  2779 GGCCGAGACCACCAGTAACAGGTT  2780 CGCGCGAAACCACCAGTAACAAGTTACTA  2781 TCGGCTTACCGCTTCGTCTGACTT  40 2782 GACTGACGTCAAGGCAAGCAACAC  2783 AGAGGAAGGAGGGGCCTGTGACAGA		2760	ATCCTGGGCACGAGCGGATTTATC
2763 CACAATGAAAAACAATGGCCCCA 2764 CCTTGCCGCGCTTGTGGTACCAAC 2765 CCGAGACCTTTGCCACACGAAAGA 2766 ACCGCGGTGTACACCTGAGCAGGC 2767 GTCGTACGCTTACCGCAGCAGGAA 2768 TCGTAATTTGACCGACACGCAG 2769 CCTAGACGGATACCCTGAGCGGAA 2770 AAGCGACAGCAGAGGTTCAGTCGC 2771 GCGTGGACGATATCACCTGGGCGT 30 2772 GTCGAGAGGCAGCAGCTTACCGCGCTT 2773 TACCCTCCGGACCAGCTGTAATGA 2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCCTTTCCTCGGAAT 35 2777 TTCGTCGTGCCAAGCTAATGCAAG 2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAACCACCAGTAACAGGTT 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGGCAACACAC 2783 AGAGGAAGGAGGGGCTTGGACAGA		2761	TCACCGCATTTGATAGTTACGCGA
2764 CCTTGCCGCGCTTGTGGTACCAAC 2765 CCGAGACCTTTGCCACACGAAAGA 2766 ACCGCGGTGTACACCTGAGCAGGC 2767 GTCGTACGCTTACCGCAGCGGAGA 2768 TCGTAATTTGACCGACACACGCAG 2769 CCTAGACGGATACCCTGAGCGGAA 2770 AAGCGACAGCAGAGGTTCAGTCGC 2771 GCGTGGACGATACCCTGGGCGT 30 2772 GTCGGAGAGCCAGTGGTACGCTT 2773 TACCCTCCGGACCAGCTGTAATGA 2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCCTTCCTCGGAAT 35 2777 TTCGTCGTGCCAAGCTAATGCAAG 2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGGCAAACAC 2783 AGAGGAAGGAGGGGCTGTGACAGA	20 \cdots	2762	TGGTGGAGCGGACTCTGGTGTTAT
2765 CCGAGACCTTTGCCACACGAAAGA 2766 ACCGCGGTGTACACCTGAGCAGGC 2767 GTCGTACGCTTACCGCAGCGAGA 2768 TCGTAATTTGACCGACACGCAG 2769 CCTAGACGGATACCCTGAGCGGAA 2770 AAGCGACAGCAGAGGTTCAGTCGC 2771 GCGTGGACGATATCACCTGGGCGT 30 2772 GTCGGAGAGCCAGTGGTACGGCTT 2773 TACCCTCCGGACCAGCTGTAATGA 2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCCTTCCTCGGAAT 35 2777 TTCGTCGTGCCAAGCTAATGCAAG 2778 CCACTACGGATCAGCAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGCAACACACACACACACACACACACACA		2763	CACAATGAAAAAACAATGGCCCCA
2766 ACCGCGGTGTACACCTGAGCAGGC 2767 GTCGTACGCTTACCGCAGCGAGA 2768 TCGTAATTTGACCGACACACGCAG 2769 CCTAGACGGATACCCTGAGCGGAA 2770 AAGCGACAGCAGAGGTTCAGTCGC 2771 GCGTGGACGATATCACCTGGGCGT 30 2772 GTCGGAGAGCCAGTGATACGCTT 2773 TACCCTCCGGACCAGCTGTAATGA 2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCCTTCCTCGGAAT 2777 TTCGTCGTGCCAAGCTAATGCAAG 2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGCAAGCAACAC 2783 AGAGGAAGGAGGAGCACAGA		2764	CCTTGCCGCGCTTGTGGTACCAAC
2767 GTCGTACGCTTACCGCAGCGGAGA 2768 TCGTAATTTGACCGACACACGCAG 2769 CCTAGACGGATACCCTGAGCGGAA 2770 AAGCGACAGCAGAGGTTCAGTCGC 2771 GCGTGGACGATATCACCTGGGCGT 2772 GTCGGAGAGCCAGTGGTACGGCTT 2773 TACCCTCCGGACCAGCTGTAATGA 2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCCTTTCCTCGGAAT 2777 TTCGTCGTGCCAAGCTAATGCAAG 2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGGCAAACAC 2783 AGAGGAAGGAGGAGGACACACA		2765	CCGAGACCTTTGCCACACGAAAGA
2768 TCGTAATTTGACCGACACACGCAG 2769 CCTAGACGGATACCCTGAGCGGAA 2770 AAGCGACAGCAGAGGTTCAGTCGC 2771 GCGTGGACGATATCACCTGGGCGT 2771 GCGTGGACGATATCACCTGGGCGT 2772 GTCGGAGAGCCAGTGGTACGGCTT 2773 TACCCTCCGGACCAGCTGTAATGA 2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCCTTTCCTCGGAAT 35 2777 TTCGTCGTGCCAAGCTAATGCAAG 2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGGCAACAC 2783 AGAGGAAGGAGGGGCTGTGACAGA		2766	ACCGCGGTGTACACCTGAGCAGGC
2769 CCTAGACGGATACCCTGAGCGGAA 2770 AAGCGACAGCAGAGGTTCAGTCGC 2771 GCGTGGACGATATCACCTGGGCGT  2772 GTCGGAGAGCCAGTGGTACGGCTT 2773 TACCCTCCGGACCAGCTGTAATGA 2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCCTTCCTCGGAAT 35 2777 TTCGTCGTGCCAAGCTAATGCAAG 2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGGCAACAC 2783 AGAGGAAGGAGGGGCTGTGACAGA	25	2767	GTCGTACGCTTACCGCAGCGGAGA
2770 AAGCGACAGCAGAGGTTCAGTCGC 2771 GCGTGGACGATATCACCTGGGCGT  2772 GTCGGAGAGCCAGTGGTACGGCTT  2773 TACCCTCCGGACCAGCTGTAATGA  2774 TATCCGCACGGTATAGCAGTTGCA  2775 CATCAGTCGGGCTACCTTCAGCCT  2776 CGGATTAATGCCTTTCCTCGGAAT  2777 TTCGTCGTGCCAAGCTAATGCAAG  2778 CCACTACGGATCAGCACAGGTGTC  2779 GGCCGAGACCACCAGTAACAGGTT  2780 CGCGCGGAAGCATGAAGTTACTA  2781 TCGGCTTACCGCTTCGTCTGACTT  40 2782 GACTGACGTCAAGGCAAGCAACAC  2783 AGAGGAAGGAGGGGCTGTGACAGA		2768	TCGTAATTTGACCGACACACGCAG
2771   GCGTGGACGATATCACCTGGGCGT		2769	CCTAGACGGATACCCTGAGCGGAA
2772 GTCGGAGAGCCAGTGGTACGGCTT 2773 TACCCTCCGGACCAGCTGTAATGA 2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCCTTTCCTCGGAAT 35 2777 TTCGTCGTGCCAAGCTAATGCAAG 2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGGCAAGCAACAC 2783 AGAGGAAGGAGGGGCTGTGACAGA		2770	AAGCGACAGCAGAGGTTCAGTCGC
2773 TACCCTCCGGACCAGCTGTAATGA 2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCCTTTCCTCGGAAT 35 2777 TTCGTCGTGCCAAGCTAATGCAAG 2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGGCAAGCAACAC 2783 AGAGGAAGGAGGGGGCTGTGACAGA	·	2771	GCGTGGACGATATCACCTGGGCGT
2774 TATCCGCACGGTATAGCAGTTGCA 2775 CATCAGTCGGGCTACCTTCAGCCT 2776 CGGATTAATGCCTTTCCTCGGAAT 2777 TTCGTCGTGCCAAGCTAATGCAAG 2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGGCAAGCAACAC 2783 AGAGGAAGGAGGGGCTGTGACAGA	30	2772	GTCGGAGAGCCAGTGGTACGGCTT
2775 CATCAGTCGGGCTACCTTCAGCCT  2776 CGGATTAATGCCTTTCCTCGGAAT  2777 TTCGTCGTGCCAAGCTAATGCAAG  2778 CCACTACGGATCAGCACAGGTGTC  2779 GGCCGAGACCACCAGTAACAGGTT  2780 CGCGCGGAAGCATTGAAGTTACTA  2781 TCGGCTTACCGCTTCGTCTGACTT  40 2782 GACTGACGTCAAGGCAAGCAACAC  2783 AGAGGAAGGAGGGGGCTGTGACAGA		2773	TACCCTCCGGACCAGCTGTAATGA
2776 CGGATTAATGCCTTTCCTCGGAAT  2777 TTCGTCGTGCCAAGCTAATGCAAG  2778 CCACTACGGATCAGCACAGGTGTC  2779 GGCCGAGACCACCAGTAACAGGTT  2780 CGCGCGGAAGCATTGAAGTTACTA  2781 TCGGCTTACCGCTTCGTCTGACTT  40 2782 GACTGACGTCAAGGCAAGCACAC  2783 AGAGGAAGGAGGGGCTGTGACAGA		2774	TATCCGCACGGTATAGCAGTTGCA
2777 TTCGTCGTGCCAAGCTAATGCAAG  2778 CCACTACGGATCAGCACAGGTGTC  2779 GGCCGAGACCACCAGTAACAGGTT  2780 CGCGCGGAAGCATTGAAGTTACTA  2781 TCGGCTTACCGCTTCGTCTGACTT  40 2782 GACTGACGTCAAGGCAAGCAACAC  2783 AGAGGAAGGAGGGGCTGTGACAGA		2775	CATCAGTCGGGCTACCTTCAGCCT
2778 CCACTACGGATCAGCACAGGTGTC 2779 GGCCGAGACCACCAGTAACAGGTT 2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGGCAACAC 2783 AGAGGAAGGAGGGGCTGTGACAGA		2776	CGGATTAATGCCTTTCCTCGGAAT
2779 GGCCGAGACCACCAGTAACAGGTT  2780 CGCGCGGAAGCATTGAAGTTACTA  2781 TCGGCTTACCGCTTCGTCTGACTT  40 2782 GACTGACGTCAAGGCAACAC  2783 AGAGGAAGGAGGGGCTGTGACAGA	35	2777	TTCGTCGTGCCAAGCTAATGCAAG
2780 CGCGCGGAAGCATTGAAGTTACTA 2781 TCGGCTTACCGCTTCGTCTGACTT 40 2782 GACTGACGTCAAGGCAAGCAACAC 2783 AGAGGAAGGAGGGGCTGTGACAGA		2778	CCACTACGGATCAGCACAGGTGTC
2781 TCGGCTTACCGCTTCGTCTGACTT  40 2782 GACTGACGTCAAGGCAACAC  2783 AGAGGAAGGAGGGGCTGTGACAGA		2779	GGCCGAGACCACCAGTAACAGGTT
40 2782 GACTGACGTCAAGGCAAGCACC 2783 AGAGGAAGGAGGGGCTGTGACAGA		2780	CGCGCGGAAGCATTGAAGTTACTA
2783 AGAGGAAGGAGGGCTGTGACAGA		2781	TCGGCTTACCGCTTCGTCTGACTT
	40	2782	GACTGACGTCAAGGCAAGCACAC
2784 TTCCAATGCGAGAGATGGCAGGCT		2783	AGAGGAAGGAGGGCTGTGACAGA
		2784	TTCCAATGCGAGAGATGGCAGGCT

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[	2785	AAATGGGGTGCTTCGAATATGTCG
	2786	GCTGTCGGATTATTGCACGCCTGT
	2787	CCGACTTTGTTTATGTTGCTGGCG
	2788	GCTGCGATATAACCCGTCCCAGAA
5	2789	TGAGCTGGGCGTCAACTCCGAAGA
	2790	CCCAAGCATCCTAAATCTCCCTCG
	2791	CGACAGCAATCCACATGCATTCTT
·	2792	TGAATGGTCGGGAAACCAATGCAT
	2793	CTTTGCATCGAGATGCGGGGTAGC
10	2794	TCCATTTCCTCCGCAACTCTCAGG
	2795	CCACTACGCCATCCTGACAACGAG
Ţ	2796	TAGTAAGGCCAATGTACGCCGTCC
	2797	GTCATGCATATGGGGCCTGTTTTC
	2798	ACCGGTAGACGTTAGCGGGTTCAA
15	2799	TTGGTTCAAACGGCCACACGTCTC
	2800	GACACAAACTGCAAGGGAGGCATG
[	2801	CTCGAGCGCTGTCATCATATCGGC
	2802	GCGGCTAAGGCACAAGTAGACGTG
	2803	ACAGCCTAAATGGCGCAAGACCGA
20	2804	GCCAAATGCTTGGAATTTGCTTCG
	2805	CCGATGATGTAAGCCGTCGGCCCT
	2806	AGGAGCAAACAACGCCAGTGACA
	2807	ACGAATTGGGTAGCCGGACTGAGA
	2808	CTGTTCCAGTTCGGCAAGTGCGGC
25	2809	AGACAAGTCAGGAACGCGTTTCCG
	2810	AGACGACGGCCAGATACGCTGCCA
	2811	AGGAAGCGCTTCTTCCGGTTCTTC
	2812	GATGGACGCAAACACAAGGCGATC
	2813	CGCATAGCAGTCTCCGCATCTTGG
30	2814	TGGTTCCGGTGTGCAACAGATAAA
	2815	CCGTATGCCACCTCCAGAACTCAA
	2816	GTAAAGGAACCCCTCGGGAATCCT
	2817	GCCTGATGCTCGTTAAAATTGCGT
	2818	TCGCACTTGGACCATGAGATCTGA
35	2819	TTCTCAGGCTGGGCAAGAGTCTGT
	2820	CGGACCTGGGGATGCTGGGATTAC
	2821	TCGAGCCGATAGGGTTGGCATTGC
	2822	TACGTGTCCCACACACGTCGTA
	2823	TGTGAAATTCGCGTTTCGCATCTT
40	2824	TTGCAATGCTCCAAAAAAACTGCC
	2825	TCTCATCATGGCTGTGGCTTTGAC
	2826	ATTACACCGCTTGGTTTGGAGTGG

2827 GCCGTGCAATGCACAGAGTTCAAG 2828 GAGATCAGACCTGTCGGATGCTG 2829 CCACCTATCTTGATGCGACCTGGA 2830 CCGATCGCCGTTTATGTCTAGGC 2831 GAAAATCACGGTAAGGCACGTTCG 2832 GATTCTCGCTTCCCAACGAGCATA 2833 CCAGAGCAGCATTCCACCAAGCATA 2834 TGTGAAATGTGGCAGTCTCAGGA 2835 CCATCCTGCGTGCCTCATCCAGGA 2836 CCCTCAAGTGGGGAGGATTTCA 2837 TCGCCTCCGCTGCTTAGAAG 2838 TTCGCTTCAGCTAGGAAGGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAA	_		
2829 CCACCTATCTTGATGCGACCTGGA 2830 CCGATCGCCGTTTATGTCTACGGC 2831 GAAAATCACGGTAAGGCACGTTCG 2832 GATTCTCGCTTCCCAACGAGCATA 2833 CCAGAGCAGCATTCCAACGAGCATA 2834 TGTGAAATGTGGCAGTCTCAGGGA 2835 CGATCCTGCGTGCCTCATCCAGGC  10 2836 CCCTCAAGTGGGCGCTCATCCAGGC 10 2836 TTCGCTTCCGCTTGTGTAGAAG 2837 TGCCTCCGCCTCGTGTAGAAG 2838 TTCGCTTTCAGCTCATTGGAACG 2839 TGTAATCTGAACAAGCGGACCCCT 2840 TGGAATCTTCTTAACCGCTCGGT 2841 GGCTTTCATCTTTAACCGCTCGGT 2842 TGATCCGAGCATTCCAACAA 2843 TGGAATCTTCTTAACCGCTCGGT 2844 AGCCATCGGTAAGAAGCCCCTT 2844 AGCCATCGGTAAGAAGCCCCTATG 2845 CGCCGCGAGACGATCCTTATTATT 20 2846 ACATGGACGAAATTACGCCCGTCA 2847 ACAGAAAGGTGGGAGCCTAGCGT 2848 AGCCTTCGAACAAGGCGACCCCT 2849 CCGTGGGCCTTGCTCCTGTTTAAC 2850 GAATACAGAGCGTCCGATTG 2851 GCGACTCTGTTGCACCA 2852 GGTGCACTCATTATCTT 2853 TGGTTACTGCAACATTGGCCC 2853 CTGTCCCACGGGAAACCTTACTT 2854 TGGCTTACTGTAGGACACTTACTT 2855 GCACTCAGTTTCCGAACTTGGCCC 2855 GCACTCAGTTTCCCACGGGAAACCTTACTT 2856 GTGAGGTTACTGCAACATCTACGCC 2857 GTAACGCCTTTTCCCATCGGTATCCCATCG 2858 GTGAGGTTCACGTAAGGCC 2859 GTGAGTTACTGTCCAACTTACGTC 2859 GTGAGTTACTGTCCCATCG 2859 GTGAGTTACTGTCCCATCG 2851 CTGCCCACGGGAAACCTTACTT 2852 GCACTCAGTTTCCCCAGCGTAT 2853 CTGTCCCACGGGGAAACCTTACTT 2854 TGGCTTACTGTCCAACGACCG 2855 GCACTCAGTTTCCCAACGACCG 2857 GTAACGCCTTTGTCCCAACCAGCG 2858 GTGAGGTTAACGACACAGCG 2859 GTGAGGTTAAGTAAGACCCCCCACCACCACCACCACCACCACCACCACCACC	1	2827	GCCGTGCAATGCACAGAGTTCAAG
2830   CCGATCGCCGTTTATGTCTACGGC	· ·	2828	GAGATCAGACCGTGTCGGATGCTG
5         2831         GAAAATCACGGTAAGGCACGTTCG           2832         GATTCTCGCTTCCCAACGAGCATA           2833         CCAGAGCAGCATTCCACAGTGGTG           2834         TGTGAAATGTGGCAGTCTCAGGGA           2835         CGATCCTGCGTGCCTCATCCAGGC           10         2836         CCCTCAAGTGGGCAGGGTTTTCA           2837         TCGCCTCCGCCTCGTTGTAGAAG           2838         TTCGCTTTCAGCTCATTGGAACGA           2839         TGTAATCTGAACAAGCGGACCCCT           2840         TGGAATCTTTCTTGAGCGCCGTGA           2841         GGCTTTCATCTTCTAGCGCCGTGA           2842         TGATCCGAGCCATTCCTAATCACC           2843         TGGTAGCGGTGATGTCCTAGCAA           2844         AGCATCGGTAAGAAGGCCCTATG           2845         CGCCGCGAGACGATCCTTATTATT           2846         ACATGGACGAACTTACGCCGTCA           2847         ACAGAAAGGTGGGAGCCTAGCGT           2848         AGCCTTGCGACTAGCTAGCT           2849         GCGTGGGCCTTGCTCCTGTTTAAC           2840         GCATGAGAGGACCAGCGCGATAT           2851         GCGACTCTGTAGGGAGCGCATAC           2852         GGTGCACTATATGCGCACTCAC           2853         CTGTCCACGGGAAACCTTACTT           2854         TGGCTTACTGTCGCATCG           2855		2829	CCACCTATCTTGATGCGACCTGGA
2832 GATTCTCGCTTCCAACGAGCATA 2833 CCAGAGCAGCATTCCACAATGGTG 2834 TGTGAAATGTGGCAGTCTCAGGGA 2835 CGATCCTGCGTGCCTCATCCAGGC 2836 CCCTCAAGTGGGCGAGGGTTTTCA 2837 TCGCCTCCGCTCGTGTGTAGAAG 2838 TTCGCTTTCAGCTCATTGGACGA 2839 TGTAATCTGACAAGCGGACCCCT 2840 TGGAATCTTCTTGAGCGCCGTGA 2841 GGCTTTCATCTTTACCGCTCGGT 2842 TGATCCGAGCCATTCCTAATCACC 2843 TGGTAGCGTAGTGAGAGA 2844 AGGCATCGGTAGTGATCAACA 2844 AGGCATCGGTAAGAAGGCCCTATG 2845 CGCCGCGAGACGATCCTAATTATT 20 2846 ACATGGACGAACTCCTATTATT 20 2848 AGCCTTCGGAACATGCCTGGT 2849 GCGTGGGCCTTGCTCAACAC 2847 ACAGAAAGGTGGGAACCTGCGT 2848 AGCCTTCGGAACATGGGTAACAC 2849 GCGTGGGCCTTGCTCTTTAAC 2850 GAATACAGAGCGTCCGATTAT 2851 GCGACTCTGTAGGAACATCCCCCCC 2852 GGTGCACTCATATGCCCCCCC 2853 CTGTCCCACGGGAAACTTAGCCC 2854 TGGCTTACTGTCGCAATCTACT 2855 GCACTCAGTTTCCGAATCTAGCC 2856 GTGAGGTTCACGTAACACGACCC 2857 GTAACGCCTTTTCCCCAACGCG 2857 GTAACGCCTTTTCCCCAACGCGTAT 2858 GCATTCATTTCCCCAACGCGTAT 2858 GCATTCATTTTCCCCAACGCACCC 2859 GTGGGTTTAATGGCCCCT 2859 GTGAGGTTCACGTAACCCCCTCT 2859 GTGAGGTTCACGTAACCCCCTCT 2859 GTGAGGTTCACGTAACCCCCTCCCCCCCCCCCCCCCCCC	<b>[</b>	2830	CCGATCGCCGTTTATGTCTACGGC
2833 CCAGAGCAGCATTCCACAATGGTG 2834 TGTGAAATGTGGCAGTCTCAGGGA 2835 CGATCCTGCGTGCCTCATCCAGGC 2836 CCCTCAAGTGGGCGAAGGGTTTTCA 2837 TCGCCTCCGCCTCGTGTGTAGAAG 2838 TTCGCTTTCAAGCTCATTGGAACAG 2839 TGTAATCTGAACAAGCGGACCCCT 2840 TGGAATCTTCTTGAGCGCCTGAT 2841 GGCTTCATCTTAACCGCTCGGT 2842 TGATCCGAGCCATTCCTAATCACC 2843 TGGTAGGCGTAAGAGGCCCATAG 2844 AGGCATCGGTAAGAAGGCCCATAG 2845 CGCCGCGAGACGATCCTATATTAT 20 2846 ACATGGAACAAGGCGCACCCT 2848 AGGCTTGGAACAAGGCCCTAG 2847 ACAGAAAGGTGGGAGCCTAGCGT 2848 AGGCTTGCGAACATGGGTAGTACCC 2850 GAATACAGACGTCCGATGTACCC 2651 GCGACCTCTGTTTAAC 2762 GGTGCACCATTGCTCCCCCCCCCCCCCCCCCCCCCCCCC	5	2831	GAAAATCACGGTAAGGCACGTTCG
2834   TGTGAAATGTGGCAGTCTCAGGGA   2835   CGATCCTGCGTGCCTCATCCAGGC   2836   CCCTCAAGTGGGCGAGGGTTTCA   2837   TCGCCTCCGCCTGTGTGTAGAAG   2838   TTCGCTTCAGCCAAGGCAAGGA   2839   TGTAATCTGAACAGCGGACCCCT   2840   TGGAATCTTGTTGAGCGCAGTGA   2841   GGCTTTCATCTTTACCGCTCGGT   2842   TGATCCGAGCCATTCCTAATCACC   2843   TGGTAGGCGATGCCTATGCACAA   2844   AGGCATCGGTAAGAGGCCCTATG   2845   CGCCGCAGAACGATCCTTATTATT   2845   CGCCGCAGAACGATCCTTATTATT   2846   ACATGGACGAACTCCTTATTATT   2848   AGGCTTGCGAACATGCCCGTCA   2847   ACAGAAAGTGGGAGCCTAGCGT   2848   AGGCTTGCGAACATGGGTAGTAC   2849   GCCTGGGCCTTGCTCCTGTTTAAC   2850   GAATACAGAGCGTCGATGTGCC   2851   GCGACTCGTATAGCGCCGTCA   2852   GGTGCACTCATATGCGTCGCATCG   2853   CTGTCCCACGGGGAAACCTTACTT   2854   TGGCTTACTGCAACATGGGCCATCG   2855   GCACTCAGTTCCCATCG   2855   GCACTCAGTTCCCATCG   2856   GTGAGGTTCACGTAAGGCACAGCG   2857   GTAACGCCTTTGCCCATCGGTATCCCATCG   2859   GTGGGTTTAAGTGACAACGGACGC   2859   GTGGGTTTAAGTGACAACGGACGC   2859   GTGGGTTTAAGTGACAACGGACGC   2850   CAAAACCCTGCCAGCGTAT   2858   GCATTGATATGGTCGCATCGCT   2859   GTGGGTTTAAGTGACAACGGACGC   2860   CAAAACCCTGCCAACATCACC   2861   TCCGAGGAAACCTGACTACC   2862   CGGGAAGAACCTGACTACC   2863   TGGTTAACTTATGTCGGAGCCACC   2864   ACGCGTCGATGAACCTGCTAACT   2863   TGGTTAACTTATGTCGGAGCCACC   2864   ACGCGTCGATGAACCTGCTAACT   2863   TGGTTAACTTATGTCGGAGCCACC   2864   ACGCGTCGATGAACTGAACCTGCTAACT   2863   TGGTTAACTTATGTCGGAGCCACC   2864   ACGCGTCGATGAACTGAACTGCTAACCTGCTAACCTGCTAACT   2864   ACGCGTCGATGAACTGGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAAC		2832	GATTCTCGCTTCCCAACGAGCATA
2835   CGATCCTGCGTGCCTCATCCAGGC	[	2833	CCAGAGCAGCATTCCACAATGGTG
10		2834	TGTGAAATGTGGCAGTCTCAGGGA
2837   TCGCCTCGGCTGTGTAGAAG		2835	CGATCCTGCGTGCCTCATCCAGGC
2838 TTCGCTTTCAGCTCATTGGAACGA 2839 TGTAATCTGAACAAGCGGACCCCT 2840 TGGAATCTTTCTTGAGCGCCGTGA 15 2841 GGCTTTCATCTTTAACCGCTCGGT 2842 TGATCCGAGCCATTCCTAATCACC 2843 TGGTAGGCGTGATGTCCTACGCAA 2844 AGGCATCGGTAAGAAGGCCCTATG 2845 CGCCGCGAGACGATCCTTATTATT 2846 ACATGGACAATTACGCCCTCA 2847 ACAGAAAGTGGGAACCTACTCATATATT 2848 AGGCTTGCGAACATGGCTAGCCA 2849 GCGTGGGCCTTGCTCTATTAAC 2849 GCGTGGGCCTTGCTCTTTAAC 2850 GAATACAGAGCGTCCGATGTGCC 25 2851 GCGACTCTGTAGGAACCGT 2852 GGTGCACTCATATGCGCCATG 2853 CTGTCCCACGGGAAACCTTACTT 2854 TGGCTTACTGTCGCATCTC 2855 GCACTCATATGCGTACCATG 30 2856 GTGAGGTTCACGTATCCCATG 2857 GTAACGCCTTTGTCCCAGCGTAT 2858 GCATTGATAGGCCAACCGC 2859 GTGAGGTTCACGTAACCCACCG 2859 GTGAGGTTTAAGTCACCATG 35 CAACCCTTGCCAACACGGACCC 2860 CAAAACCCTGCCAACACGGACCC 2861 TCCCAGGAGAACTTACCT 2862 CGGGGAAGACTGAACCTGCTACC 2864 ACGCGTCGATGAACCTGCCTACC 2865 TCCCAGGAGAACTAAGGCCCCC 2864 ACGCGTCGATGAACCTGCCTACC 2865 TCCCCAGGAGATCAACGCACCC 2866 TCCGCGGTTGCCGATTGTACCCACCC 2867 TGGCGCATCTTTCAGGGAGCCACC 366 TCCGCGGTTGCCGATTGTACCCACCC 367 TGGCGCATCTTTCAGGGAACACGCGC 367 TGGCGCATCTTTCAGGGAACACGCACCC 367 TGGCGCATCTTTCAGGGGATGATG	10	2836	CCCTCAAGTGGGCGAGGGTTTTCA
2839   TGTAATCTGAACAAGCGGACCCCT		2837	TCGCCTCGCCTCGTGTAGAAG
15		2838	TTCGCTTTCAGCTCATTGGAACGA
15		2839	TGTAATCTGAACAAGCGGACCCCT
2842   TGATCCGAGCCATTCCTAATCACC		2840	TGGAATCTTTCTTGAGCGCCGTGA
2843 TGGTAGGCGTGATGTCCTACGCAA 2844 AGGCATCGGTAAGAAGGCCCTATG 2845 CGCCGCGAGACGATCCTTATTATT 2846 ACATGGACGAAATTACGCCCGTCA 2847 ACAGAAAGGTGGGGAGCCTAGCGT 2848 AGGCTTGCGAACATGGGTAGTGAC 2849 GCGTGGGCCTTGCTCCTGTTTAAC 2850 GAATACAGAGCGTCCGATGTGCCC 2851 GCGACTCTGTAGGGAGCGCGATAT 2852 GGTGCACTCATATGCGTCGCATCG 2853 CTGTCCCACGGGGAAACCTTACTT 2854 TGGCTTACTGTCGCAATCTAGGCC 2855 GCACTCAGTTCCGGTATCCCATG 30 2856 GTGAGGTTCACGTAAGGCACCAGCG 2857 GTAACGCCTTTGTCCCCAGCGTAT 2858 GCATTGATATGGTCGCATCTG 2859 GTGAGTTTAAGTAGCACCGCC 2859 GTGAGTTTAAGTACCAACGGACCC 2860 CAAAACCCTGCCGAAGATGTTGGT 35 2861 TCCGAGGAGACTGAACCTGCTACC 2862 CGGGGAAGACTGAACCTGCTACC 2863 TGGTTAGCTTATTCCGAGCCCC 2864 ACGCGTCGATGAACCAACGCACC 2865 TTCTCCTGACGAGTACCAACCCCC 2865 TTCTCCTGACGAGTACCAACCGACCC 3866 TCCGCGGTTGCCGGTTTGTTAAGA 40 2867 TGGCGCATCTTTCAGGGATGATG	15	2841	GGCTTTCATCTTTAACCGCTCGGT
2844 AGGCATCGGTAAGAAGGCCCTATG 2845 CGCCGCGAGACGATCCTTATTATT 2846 ACATGGACGAAATTACGCCCGTCA 2847 ACAGAAAGGTGGGGAGCCTAGCGT 2848 AGGCTTGCGAACATGGGTAGTGAC 2849 GCGTGGGCCTTGCTCCTGTTTAAC 2850 GAATACAGAGCGTCCGATGTGCCC 2851 GCGACTCTGTAGGGAGCGCGATAT 2852 GGTGCACTCATATGCGTCGCATCG 2853 CTGTCCCACGGGGAAACCTTACTT 2854 TGGCTTACTGTCCCATCG 2855 GCACTCAGTTTCCCATCG 30 2856 GTGAGGTTCACGTAAGGCACACG 2857 GTAACGCCTTTGTCCCAGCGTAT 2858 GCATTGATAGGTCGGCC 2859 GTGGGTTTAAGTCACACGACG 2859 GTGGGTTTAAGTCACACGACG 2860 CAAAACCCTGCCGAAGATGTTGGT 35 2861 TCCGAGGAGACTGAACCTACC 2862 CGGGGAAGACTGAACCTGCCACC 2864 ACGCGTCGATGAACCACCC 2865 TTCTCCTGACGAGTACGACCC 2866 TCCGCGGTTGCCGTTTGTTAGGA 40 2866 TCCGCGGTTGCCGTTTGTTAGGA 40 2867 TGGCGCATCTTTCAGGGGATGATG 40 CAGACCTTTCAGGGGGATGATGACACCGACCC 41 CAGACGACTAGACCTACCC 42 CGGGAAGACTAGACCTACCC 43 CGGCGATGAACTAAGGCTCGC 44 CGCGTCGATGAACTAAGGCTCGC 45 CCGCGGTTGCCGGTTTGTTAGGA 46 CCGCGGTTGCCGGTTTGTTAGGA		2842	TGATCCGAGCCATTCCTAATCACC
2845 CGCCGCGAGACGATCCTTATTATT  2846 ACATGGACGAAATTACGCCCGTCA  2847 ACAGAAAGGTGGGGAGCCTAGCGT  2848 AGGCTTGCGAACATGGGTAGTGAC  2849 GCGTGGGCCTTGCTCCTGTTTAAC  2850 GAATACAGAGCGTCCGATGTCCC  2851 GCGACTCTGTAGGGAGCGCATAT  2852 GGTGCACTCATATGCGTCGCATCG  2853 CTGTCCCACGGGGAAACCTTACTT  2854 TGGCTTACTGTCGCAATCTAGGCC  2855 GCACTCAGTTTCCGGTATCCCATG  30 2856 GTGAGGTTCACGTAAGGCACAGCG  2857 GTAACGCCTTTGTCCCCAGCGTAT  2858 GCATTGATATGGTCGCATCT  2859 GTGGGTTTAAGTGACAACGGACGC  2860 CAAAACCCTGCCGAAGATGTTGGT  35 2861 TCCGAGGAGACTGAACCTGCTACC  2862 CGGGGAAGACCGATCTACC  2863 TGGTTAGCTTATGTCGGAGCCACC  2864 ACGCGTCGATGAACTAAGGCTCGC  2865 TTCTCCTGACGAGTACGCAGTGGG  40 2866 TCCGCGGTTGCCGCTTTGTTAGGA  2867 TGGCGCATCTTTCAGGGGATGATG		2843	TGGTAGGCGTGATGTCCTACGCAA
2846 ACATGGACGAAATTACGCCCGTCA  2847 ACAGAAAGGTGGGAGCCTAGCGT  2848 AGGCTTGCGAACATGGGTAGTGAC  2849 GCGTGGGCCTTGCTCCTGTTTAAC  2850 GAATACAGAGCGTCCGATGTGCCC  2851 GCGACTCTGTAGGGAGCCTAGCGT  2852 GGTGCACTCATATGCGTCGCATCG  2853 CTGTCCCACGGGGAAACCTTACTT  2854 TGGCTTACTGTCGCAATCTAGGCC  2855 GCACTCAGTTTCCGGTATCCCATG  30 2856 GTGAGGTTCACGTAAGGCACAGCG  2857 GTAACGCCTTTGTCCCCAGCGTAT  2858 GCATTGATATGGTCGGCTAT  2858 GCATTGATATGGTCGGTATCCCCT  2859 GTGGGTTTAAGTGACAACGGACGC  2860 CAAAACCCTGCCGAAGATGTTGGT  35 2861 TCCGAGGAGACTGAACCTGCTACC  2862 CGGGGAAGAACGGATTCGCTAAAT  2863 TGGTTAGCTTATGTCGGAGCCACC  2864 ACGCGTCGATGAACTAAGGCTCGC  2865 TTCTCCTGACGAGTACCAGTGGG  40 2866 TCCGCGGTTGCCGGTTTTTAGGA  2867 TGGCGCATCTTTCAGGGGATGATG		2844	AGGCATCGGTAAGAAGGCCCTATG
2847 ACAGAAAGGTGGGAGCCTAGCGT  2848 AGGCTTGCGAACATGGGTAGTGAC  2849 GCGTGGGCCTTGCTCCTGTTTAAC  2850 GAATACAGAGCGTCCGATGTGCCC  2851 GCGACTCTGTAGGGAGCGCGATAT  2852 GGTGCACTCATATGCGTCGCATCG  2853 CTGTCCCACGGGGAAACCTTACTT  2854 TGGCTTACTGTCGCAATCTAGGCC  2855 GCACTCAGTTTCCGGTATCCCATG  30 2856 GTGAGGTTCACGTAAGGCACAGCG  2857 GTAACGCCTTTGTCCCCAGCGTAT  2858 GCATTGATATGGTCGGTATCCCT  2859 GTGGGTTTAAGTGACAACGGACGC  2860 CAAAACCCTGCCGAAGATGTTGGT  35 2861 TCCGAGGAGACTGAACCTGCTAACC  2862 CGGGGAAGAACGGATCGCCACC  2864 ACGCGTCGATGACCTACC  2865 TTCTCCTGACGAGTACCAGCG  40 2866 TCCGCGGTTGCCGGTTTTTAGGA  40 2867 TGGCGCATCTTTCAGGGATGATG  40 2867 TGGCGCATCTTTCAGGGGATGATG	[	2845	CGCCGCGAGACGATCCTTATTATT
2848         AGGCTTGCGAACATGGGTAGTGAC           2849         GCGTGGGCCTTGCTCCTGTTTAAC           2850         GAATACAGAGCGTCCGATGTGCCC           2851         GCGACTCTGTAGGGAGCGCGATAT           2852         GGTGCACTCATATGCGTCGCATCG           2853         CTGTCCCACGGGGAAACCTTACTT           2854         TGGCTTACTGTCGCAATCTAGGCC           2855         GCACTCAGTTTCCGGTATCCCATG           30         2856         GTGAGGTTCACGTAAGGCACAGCG           2857         GTAACGCCTTTGTCCCCAGCGTAT           2858         GCATTGATATGGTCGGTCTCGCCT           2859         GTGGGTTTAAGTGACAACGGACGC           2860         CAAAACCCTGCCGAAGATGTTGGT           35         2861         TCCGAGGAGACTGAACCTGCTACC           2862         CGGGGAAGAACGGATTCGCTAAAT           2863         TGGTTAGCTTATGTCGGAGCCACC           2864         ACGCGTCGATGAACTAAGGCTCGC           2865         TTCTCCTGACGAGTACGCAGTGGG           40         2866         TCCGCGGTTGCCGGTTTGTTAGGA           40         2867         TGGCGCATCTTTCAGGGGATGATG	20	2846	ACATGGACGAAATTACGCCCGTCA
2849 GCGTGGGCCTTGCTCCTGTTTAAC 2850 GAATACAGAGCGTCCGATGTGCCC 2851 GCGACTCTGTAGGGAGCGCGATAT 2852 GGTGCACTCATATGCGTCGCATCG 2853 CTGTCCCACGGGGAAACCTTACTT 2854 TGGCTTACTGTCGCAATCTAGGCC 2855 GCACTCAGTTTCCGGTATCCCATG 30 2856 GTGAGGTTCACGTAAGGCACAGCG 2857 GTAACGCCTTTGTCCCCAGCGTAT 2858 GCATTGATATGGTCGGTCTCGCCT 2859 GTGGGTTTAAGTGACAACGGACGC 2860 CAAAACCCTGCCGAAGATGTTGGT 35 2861 TCCGAGGAGACTGACCTGCTACC 2862 CGGGGAAGACTGAACCTGCTACC 2863 TGGTTAGCTTATGTCGGAGCCACC 2864 ACGCGTCGATGAACTAAGGCTCGC 2865 TTCTCCTGACGAGTACCAGTGGG 40 2866 TCCGCGGTTGCCGGTTTGTAGGA 40 2866 TCCGCGGTTGCCGGTTTGTAGGA 2867 TGGCGCATCTTTCAGGGGATGATG		2847	ACAGAAAGGTGGGGAGCCTAGCGT
2850 GAATACAGAGCGTCCGATGTGCCC 2851 GCGACTCTGTAGGAGCGCGCATAT 2852 GGTGCACTCATATGCGTCGCATCG 2853 CTGTCCCACGGGGAAACCTTACTT 2854 TGGCTTACTGTCGCAATCTAGGCC 2855 GCACTCAGTTTCCGGTATCCCATG 30 2856 GTGAGGTTCACGTAAGGCACAGCG 2857 GTAACGCCTTTGTCCCCAGCGTAT 2858 GCATTGATATGGTCGGTCTCGCCT 2859 GTGGGTTTAAGTGACAACGGACGC 2860 CAAAACCCTGCCGAAGATGTTGGT 35 2861 TCCGAGGAGACTGAACCTGCTAACT 2862 CGGGGAAGAACGGATCCCTAAAT 2863 TGGTTAGCTTATGTCGGAGCCACC 2864 ACGCGTCGATGAACTAAGGCTCGC 2865 TTCTCCTGACGAGTACGAGTGGG 40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTCAGGGGATGATG		2848	AGGCTTGCGAACATGGGTAGTGAC
25 2851 GCGACTCTGTAGGGAGCGCGATAT 2852 GGTGCACTCATATGCGTCGCATCG 2853 CTGTCCCACGGGGAAACCTTACTT 2854 TGGCTTACTGTCGCAATCTAGGCC 2855 GCACTCAGTTTCCGGTATCCCATG  30 2856 GTGAGGTTCACGTAAGGCACAGCG 2857 GTAACGCCTTTGTCCCCAGCGTAT 2858 GCATTGATATGGTCGGTCTCGCCT 2859 GTGGGTTTAAGTGACAACGGACGC 2860 CAAAACCCTGCCGAAGATGTTGGT  35 2861 TCCGAGGAGACTGAACCTGCTACC 2862 CGGGGAAGAACGGATCGCTAAAT 2863 TGGTTAGCTTATGTCGGAGCCACC 2864 ACGCGTCGATGAACTAAGGCTCGC 2865 TTCTCCTGACGAGTACCAGTGGG  40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTTCAGGGGATGATG		2849	GCGTGGGCCTTGCTCCTGTTTAAC
2852 GGTGCACTCATATGCGTCGCATCG 2853 CTGTCCCACGGGGAAACCTTACTT 2854 TGGCTTACTGTCGCAATCTAGGCC 2855 GCACTCAGTTTCCGGTATCCCATG  30 2856 GTGAGGTTCACGTAAGGCACAGCG 2857 GTAACGCCTTTGTCCCCAGCGTAT 2858 GCATTGATATGGTCGGTCTCGCCT 2859 GTGGGTTTAAGTGACAACGGACGC 2860 CAAAACCCTGCCGAAGATGTTGGT  35 2861 TCCGAGGAGACTGAACCTGCTACC 2862 CGGGGAAGAACGGATCCCCAAAT 2863 TGGTTAGCTTATGTCGGAGCCACC 2864 ACGCGTCGATGAACTAAGGCTCGC 2865 TTCTCCTGACGAGTACCAGCGGG 40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTTCAGGGGATGATG	ĺ	2850	GAATACAGAGCGTCCGATGTGCCC
2853 CTGTCCACGGGGAAACCTTACTT  2854 TGGCTTACTGTCGCAATCTAGGCC  2855 GCACTCAGTTTCCGGTATCCCATG  30 2856 GTGAGGTTCACGTAAGGCACAGCG  2857 GTAACGCCTTTGTCCCCAGCGTAT  2858 GCATTGATATGGTCGGTCTCGCCT  2859 GTGGGTTTAAGTGACAACGGACGC  2860 CAAAACCCTGCCGAAGATGTTGGT  35 2861 TCCGAGGAGACTGAACCTGCTACC  2862 CGGGGAAGAACGGATTCGCTAAAT  2863 TGGTTAGCTTATGTCGGAGCCACC  2864 ACGCGTCGATGAACTAAGGCTCGC  2865 TTCTCCTGACGAGTACCAGTGGG  40 2866 TCCGCGGTTGCCGGTTTGTTAGGA  2867 TGGCGCATCTTTCAGGGGATGATG	25	2851	GCGACTCTGTAGGGAGCGCGATAT
2854   TGGCTTACTGTCGCAATCTAGGCC		2852	GGTGCACTCATATGCGTCGCATCG
2855 GCACTCAGTTTCCGGTATCCCATG  2856 GTGAGGTTCACGTAAGGCACAGCG  2857 GTAACGCCTTTGTCCCCAGCGTAT  2858 GCATTGATATGGTCGGTCTCGCCT  2859 GTGGGTTTAAGTGACAACGGACGC  2860 CAAAACCCTGCCGAAGATGTTGGT  35 2861 TCCGAGGAGACTGAACCTGCTACC  2862 CGGGGAAGAACGGATTCGCTAAAT  2863 TGGTTAGCTTATGTCGGAGCCACC  2864 ACGCGTCGATGAACTAAGGCTCGC  2865 TTCTCCTGACGAGTACGCAGTGGG  40 2866 TCCGCGGTTGCCGGTTTGTTAGGA  2867 TGGCGCATCTTTCAGGGGATGATG		2853	CTGTCCCACGGGGAAACCTTACTT
2856   GTGAGGTTCACGTAAGGCACAGCG		2854	TGGCTTACTGTCGCAATCTAGGCC
2857 GTAACGCCTTTGTCCCCAGCGTAT  2858 GCATTGATATGGTCGGTCTCGCCT  2859 GTGGGTTTAAGTGACAACGGACGC  2860 CAAAACCCTGCCGAAGATGTTGGT  35 2861 TCCGAGGAGACTGAACCTGCTACC  2862 CGGGGAAGAACGGATTCGCTAAAT  2863 TGGTTAGCTTATGTCGGAGCCACC  2864 ACGCGTCGATGAACTAAGGCTCGC  2865 TTCTCCTGACGAGTACGCAGTGGG  40 2866 TCCGCGGTTGCCGGTTTGTTAGGA  2867 TGGCGCATCTTTCAGGGGATGATG		2855	GCACTCAGTTTCCGGTATCCCATG
2858 GCATTGATATGGTCGGTCTCGCCT 2859 GTGGGTTTAAGTGACAACGGACGC 2860 CAAAACCCTGCCGAAGATGTTGGT 35 2861 TCCGAGGAGACTGAACCTGCTACC 2862 CGGGGAAGAACGGATTCGCTAAAT 2863 TGGTTAGCTTATGTCGGAGCCACC 2864 ACGCGTCGATGAACTAAGGCTCGC 2865 TTCTCCTGACGAGTACGCAGTGGG 40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTTCAGGGGGATGATG	30	2856	GTGAGGTTCACGTAAGGCACAGCG
2859 GTGGGTTTAAGTGACAACGGACGC 2860 CAAAACCCTGCCGAAGATGTTGGT 35 2861 TCCGAGGAGACTGAACCTGCTACC 2862 CGGGGAAGAACGGATTCGCTAAAT 2863 TGGTTAGCTTATGTCGGAGCCACC 2864 ACGCGTCGATGAACTAAGGCTCGC 2865 TTCTCCTGACGAGTACGCAGTGGG 40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTTCAGGGGATGATG		2857	GTAACGCCTTTGTCCCCAGCGTAT
2860 CAAAACCCTGCCGAAGATGTTGGT  2861 TCCGAGGAGACTGAACCTGCTACC  2862 CGGGGAAGAACGGATTCGCTAAAT  2863 TGGTTAGCTTATGTCGGAGCCACC  2864 ACGCGTCGATGAACTAAGGCTCGC  2865 TTCTCCTGACGAGTACGCAGTGGG  40 2866 TCCGCGGTTGCCGGTTTGTTAGGA  2867 TGGCGCATCTTTCAGGGGATGATG		2858	GCATTGATATGGTCGGTCTCGCCT
2861 TCCGAGGAGACTGAACCTGCTACC 2862 CGGGGAAGAACGGATTCGCTAAAT 2863 TGGTTAGCTTATGTCGGAGCCACC 2864 ACGCGTCGATGAACTAAGGCTCGC 2865 TTCTCCTGACGAGTACGCAGTGGG 40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTTCAGGGGGATGATG		2859	GTGGGTTTAAGTGACAACGGACGC
2862 CGGGGAAGAACGGATTCGCTAAAT 2863 TGGTTAGCTTATGTCGGAGCCACC 2864 ACGCGTCGATGAACTAAGGCTCGC 2865 TTCTCCTGACGAGTACGCAGTGGG 40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTTCAGGGGATGATG		2860	CAAAACCCTGCCGAAGATGTTGGT
2863 TGGTTAGCTTATGTCGGAGCCACC 2864 ACGCGTCGATGAACTAAGGCTCGC 2865 TTCTCCTGACGAGTACGCAGTGGG 40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTTCAGGGGATGATG	35	2861	TCCGAGGAGACTGAACCTGCTACC
2864 ACGCGTCGATGAACTAAGGCTCGC 2865 TTCTCCTGACGAGTACGCAGTGGG 40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTTCAGGGGATGATG		2862	CGGGGAAGAACGGATTCGCTAAAT
2865 TTCTCCTGACGAGTACGCAGTGGG 40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTTCAGGGGATGATG		2863	TGGTTAGCTTATGTCGGAGCCACC
40 2866 TCCGCGGTTGCCGGTTTGTTAGGA 2867 TGGCGCATCTTTCAGGGGATGATG		2864	ACGCGTCGATGAACTAAGGCTCGC
2867 TGGCGCATCTTTCAGGGGATGATG		2865	TTCTCCTGACGAGTACGCAGTGGG
	40 .	2866	TCCGCGGTTGCCGGTTTGTTAGGA
2868 TCTTTGGTCCTTGGTGTTTACGCG		2867	TGGCGCATCTTTCAGGGGATGATG
		2868	TCTTTGGTCCTTGGTGTTTACGCG

Ţ	2869	GAGAACTCCCGCTACAAAGGAGCC
	2870	TTAACGTGGGAACCGTTGGTGAAT
	2871	GGGACACCATCCTTGGGTTTGTTA
•	2872	CAACAAACCGCCTTGGGAAGTGAC
5	2873	TTGAAGGCCACCGATACTGATCGC
	2874	TCGTAATAGAACTGCGCCCAATGC
	2875	GGCACGTTGCCCAAGTTGGATCCA
	2876	ACATAGCTTGGCCGGACACCCACC
	2877	CTTGCCGCCTTGCGAGTGGCTAAA
10	2878	AGTTCCGCGTCCTACTTCAACGCT
	2879	AATGGCTCGCCAGATACCGCAGCC
	2880	CAAAAGGCGTGTCCGAACTTTTCA
	2881	CGTCCACTTAGGTGGAGATACGCC
	2882	GAGCCTCTTCGTCCTGAAGACCGA
15	2883	AACATCAAGCGGCAATCTCCCTTC
	2884	CGTCCTGACATTATTAGCGCGTGC
_	2885	TGTGCAGACCTAACGACCTACGG
·	2886	TTAGGTCGGCCTAGACCCTCCGTA
	2887	TCACATCGCTTAACTGAGCGCATT
20	2888	AGACCTTCCCACGCGAGATGCTAC
	2889	TTCTTGCCAAAATGTGTCCAACCA
	2890	CAGTTTTCATTGCAGCGAAAGCAA
	2891	GTGCCGATCCCGAGACAAGTTCCG
	2892	CATCCGGCCTCAGTGATTCTTACC
25	2893	TGCTGGAAGCCACAAACGTTACGT
	2894	GAACGGCCAGGGGACAACTATCGT
	2895	TCATCTAGGTCGAAGCGCAAGACA
	2896	TTTGGTTACCAGCACCCATGTTCC
	2897	GACAACAGTCTGTCCGCCACATCC
30	2898	GCCAACAGGAGATGCTTGCACCAT
	2899	CTAAGGACGCATTGACCCCTGAAC
	2900	GGTCGCGTAGTGAGTCAGAGGCGT
•	2901	TTACCTCATGAACCCTTCGCGGCG
	2902	TATACAGCATCGTCGCCGGGCATA
35	2903	GCTTAGTGGCGTCTTCGTCGTAGG
	2904	TGCACTCCGCAACCTTGTGAAATC
	2905	AACCCGTCATGCCGACTCCATCTA
•••	2906	AGCACTAGTGGCGTGCGACTTTGC
	2907	TAAAAAGTGCCGCTAACCACGGAG
40	2908	CGCGGAATATTTGTCGTCCGATTC
	2909	TTCTGCTATGCGTATGGGGGCCCG
	2910	CGAACTACTGCGTCAGCCTCTCCC

2911   AGATGACGAATTAGCGGGGTTGGG   2912   AATAACAGTGGCAATGAGCGGGAA   2913   ATATGTTGATTCCCGTGCTCACA   2914   AGAGTGGGCACACCAGGCAGACA   2915   AGGCCTGGGTTCTGCGTCTTAGT   2916   ATGACTTCAGGCACCTCAGGCACCT   2917   CGGACGTGACAAACCGGACATACCC   2918   CAAGTGTTCTGCGCCAACTCTCGA   2919   GAACCCTTATCGGGATAGGCCCAACTCTCGA   2919   GAACCCTTATCGGGATAGGCCCAACCC   2921   GCGTCTTGTGATTCTGCCCTAACC   2922   AACAACCATCAAGCAGAACGCC   2921   GCGTCTTGTGATTCTGCCCTAACC   2922   AACAACCATCAATGTCGGGTCCA   2923   TGTAAAGACCAGTGGCGGCTCT   2924   GCGTTTTGACTCGGTGGACACGC   2925   TGTATGGAGGCACAGCC   2926   TTACCTAGGTTCGCGTGACACGC   2927   CGGCTCGTGGGAATCCTCTGAGA   2928   CGGCTCGGGGAATTCTTCTGGACAC   2928   CGGCTCGGGGAATTCTTCTTGGACCT   2929   CAACGATGGAATTGTCTCTTGAGA   2928   CGGCTCGGGCATTTCTTGGGC   2931   ACGTACCTGAAGATTGACCT   2929   CAACGATGAATTGCCTTTGGG   2931   ACGTACCTGAAGATTGACC   2931   ACGTACCTGAAGATTGACC   2931   ACGTACCTGAAGATTGACC   2932   CATGGTGCAGCACCACAAGTAAC   2933   CGTCGATATGTCGGGCTATTGCCT   2934   AAATGCAGGGTTAAGAGGGCG   2935   TGCAAGGACGACACAAGTAAC   2936   GTTTTCGGACCGCCAAGTTAC   2937   CCCCGATGGTTCATTGCGTT   2936   GTTTTCGGACCGCCCAAGTTCA   2937   CCCTCGATGGTTCATTGGGGTTCA   2939   GAAAGAACGATCGCGGAATTCTCCCGCTGT   2939   GAAAGAACGATCGCGGAATTCTC   2931   TCCACCTGTGTGCCTATATTGGGGT   2932   CCTCGATGGTCATATTGGGGT   2934   CCTCGATGGTCATAATGGTGGGT   2935   GAAAGAACGATCGCGGAATAGCTG   2940   TCCACCTGTGTGCCTATAATGGTGGGT   2941   TCCTCCGTGAACCGCTGTACCCCA   2942   CCCCCAGAAGTCCCTGCTCCCTA   2943   TTGAGATTTTTACCTCA   2943   TTGAGATTTTTACCTCA   2943   TTGAGATTTTTACGGTTTCCCAGCGCA   2944   CGATAGGACGCCCAGAGTCCCCAAGTTCC   2944   CGATAGGACGCCCAGAGTCCCCAAGCCCCAGACCACACACCCCCCAAGCCCCCCAGACCCCCC	_		
2913 ATATGTTGATTCCCGTGCTGCACA 2914 AGAGTGGGCACCACAGGCAGACA 2915 AGGCCTGGGTTTCTGCGCTCTTAGT 2916 ATGACTTCAGGCACCTCACCACCT 2917 CGGACGTGACAACCGCACCT 2918 CAAGTGTTTCGGCCCAACTCTCGA 2919 GAACCCTTATCGGACATAGCCC 2918 CAAGTGTTTCGGCCCAACTCTCGA 2919 GAACCCTTATCGGATAGGCCCAA 10 2920 CAGGACGATACCAACCGCC 2921 ACCAACCATCATCGGGTCCA 2922 AAACAACCATCATGTCGGGTCCA 2923 TGTAAAGACCAGTTGCCGGCTCTC 2924 GCGTTTTGACTCGGGTCACC 2925 TGTATGGAGGCACGCC 2927 CGGCTCGTGGCAATCCTCAAGCA 2928 TTACCTAGGTTCCCGCTGACCC 2929 CAACGATGGATCCTCTGAAGA 2929 CAACGATGGAATCCTCTGAAGA 2929 CAACGATGGAATCCTCTGAAGA 2929 CAACGATGGAATCTTTGGGCGCACCC 2931 ACGTACCTGAAGAACACATTATCGGGATTATTGGGG 2931 ACGTACCTGAAGAACACACACACACACACACACACACACA		2911	AGATGACGAATTAGCGGGGTTGGG
2914   AGAGTGGGCACCACGAGCAGACA   2915   AGGCCTGGGTTTCTGCGTCTTAGT   2916   ATGACTTCAGGCACCTT   2917   CGACGTGACAAACGACACTCCC   2918   CAAGTGTTTCGGCCCAACTCTCGA   2919   GAACCCTTATCGGCACACTCTCGA   2919   GAACCCTTATCGGCACACTCTCGA   2919   GAACCCTTATCGGCACACCCC   2921   GCGTCTTGGATTCGCCCTAACC   2921   GCGTCTTGTGATTCTGCCCTAACC   2922   AAACAACCATCAATGTCGGGTCCA   2923   TGTAAAGACCAGTTGGCGGTCCA   2924   GCGTTTGGACTCGGTGCACC   2925   TGTATGGAGGCACGGCAAAGTCTT   2926   TTACCTAGGTTCACCCCCCCCCCCCCCCCCCCCCCCCCC		2912	AATAACAGTGGCAATGAGCGGGAA
5         2915         AGGCCTGGGTTTCTGCGTCTTAGT           2916         ATGACTTCAGGCACCTCAGCACCT           2917         CGGACGTGACAAACGGACATACCC           2918         CAAGTGTTTCGGCCCAACTCTCGA           2919         GAACCCTTATCGGGATAGGCCCAA           10         2920         CAGGACGATACCAAGCAGAACGCC           2921         GCGTCTTGTGATTCTGCCCTAACC           2922         AAACAACCATCAATGTCGGGTCCA           2923         TGTAAAGACCAGTTGGCGGCTCTC           2924         GCGTTTTGACTCGGTGGTCAGTCC           2925         TGATTGGAGGCACGGCAAAGTCTT           2926         TTACCTAGGTTCCCGCTGACACGC           2927         CGGCTCGTGGGAATCCTCTGAAGA           2928         CCGGCTCGTGGGAATCCTCTGAAGA           2929         CAACGATGGAATTGTCCCTTTGGG           2920         CAACGATGGAATTGTCTCCTTTGGG           2921         CAGGCTATTATCCGGATTATCGG           2922         CATGGTGACACGACAAGTAAC           2931         ACGTACCTGAAGATGCACGCACAATTAAC           2932         CATGGTGACACGCACAAGTAAC           2933         CGTCGATATTGTCGGGTTTCCCTT           2934         AAATGCAGGGTTAAGAGGACCC           2935         TGCAAGGACTGATTCCCGCTGT           2936         CTGTTCCGTATAATGGTGGGAT           <		2913	ATATGTTGATTCCCGTGCTGCACA
2916   ATGACTTCAGGCACCTT	ĺ	2914	AGAGTGGGCACCACCAGGCAGACA
2917   CGGACGTGACAAACGGACATACCC   2918   CAAGTGTTTCGGCCCAACTCTCGA   2919   GAACCCTTATCGGACTAAGGCCCAA   2919   GAACCCTTATCGGGATAGGCCCAA   2920   CAGGACGATACCAAGCAGAACGCC   2921   GCGTCTTGTGATTCTGCCCTAACC   2922   AAACAACCATCAATGTCGGGTCCA   2923   TGTAAAGACCAGTTGGCGGCTCTC   2924   GCGTTTTGACTCGGTGGCGCTCTC   2925   TGTATGGAGGCAGGCAAAGTCTT   2926   TTACCTAGGTTCCCGCTGACACGC   2927   CGGCTCGTGGGAATCCTCTGAAGA   2928   CCGGCTCGGGCAATCCTCTGAAGA   2929   CAACGATGGAATCCTCTGAAGA   2928   CCGGCTCGGGCATTCTTGGACCT   2929   CAACGATGGAATTCTCGGGCGG   2931   ACGTACCTGAAGATGCACGCGG   2931   ACGTACCTGAAGATGCACGGCGG   2932   CATGGTGCAGCACGACAAGTAAC   2933   CCTCGATATGTCGGGCTATTGCCT   2934   AAATGCAGGCTGAAGAGGCCC   2935   TGCAAGGACTGATTCTCCGGCTGT   2936   GTTTTCGGAACGCCCCAGAGTTCA   2937   CCCTCGATGGTTCATTGGGAAGAC   2938   CCTGTTCGCTCATAATGGTGGGT   2939   GAAAGAACGATCGCGCAAAGTACC   2939   GAAAGAACGATCGCGGAATAGCTG   2940   TCCACCTGTTGCCTTAACTGGTGGGA   2941   TCCTCCGTGAACCGCGCAATAGCTG   2942   GCCCCAGAGAGTCCCCAGA   2943   TTGAGATTTTTACGGTTTCCCAG   2944   CGATAGGACGTGCCTTAACCTCA   2945   CCCCACAGAGTCCCCGCAACGCACACACACACACACACAC	5	2915	AGGCCTGGGTTTCTGCGTCTTAGT
2918		2916	ATGACTTCAGGCACCTCAGCACCT
2919   GAACCCTTATCGGGATAGGCCCAA	(	2917	CGGACGTGACAAACGGACATACCC
10   2920		2918	CAAGTGTTTCGGCCCAACTCTCGA
2921 GCGTCTTGTGATTCTGCCCTAACC 2922 AAACAACCATCAATGTCGGGTCCA 2923 TGTAAAGACCAGTTGGCGGTCCA 2924 GCGTTTTGACTCGGTGGTCAGTCC 2924 GCGTTTTGACTCGGTGGTCAGTCC 2925 TGTATGGAGGCACGGCAAAGTCTT 2926 TTACCTAGGTTCCCGCTGACACGC 2927 CGGCTCGTGGGAATCCTCTGAAGA 2928 CCGGCTCGTGGGAATCCTCTGAAGA 2929 CAACGATGGAATTGTCTCCTTGAG 2929 CAACGATGGAATTGTCTCCTTGAG 2930 CGGCTATTATCGGGATTATGGG 2931 ACGTACCTGAAGATGCAACGCGG 2932 CATGGTGCAGCACACAAGTAAC 2933 CCTCGATATGTCGGGCTATTGCCT 2934 AAATGCAGGGTTAAGAGGAGGCCC 2935 TGCAAGGACTGATTCTCCCGCTGT 2936 GTTTTCGGAACGCCGCAGAGTTCA 2937 CCCTCGATGGTTCATTGGGAAGAC 2938 CCTGTTCGCTCATAATGGTGGGGT 2939 GAAAGAACGATCGCGGAATAGCTG 2939 GAAAGAACGATCGCGGAATAGCTG 2941 TCCTCCGTGACCCTTTACCCCA 2941 TCCTCCGTGACCCTTTACCCCA 2942 GCCCCAGAGAGTCCCCGCA 2943 TTGAGATTTTACGTTTCCCCGC 2944 CGATAGGACGTCCTGCTCCCTA 2943 TTGAGATTTTACGGTTTCCCCGC 2944 CGATAGGACGTGGCAATGCCCAC 2945 CCCGAACTTTCAGACCAC 2946 TCACGCAGCTAGAGTCCCAGACAC 2947 AGATAACGCCCACTGACGACAT 2948 ACGCTTAGAGCTCCGATACCC 2948 ACGCTTAGAGCTCCGATACCC 2948 ACGCTTAGAGCTCCGATACCC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2949 GGGCGATAACTTAAATTGTGCCGC 2950 AGGACGTTCATGCGATACCTAA		2919	GAACCCTTATCGGGATAGGCCCAA
2922	10	2920	CAGGACGATACCAAGCAGAACGCC
2923   TGTAAAGACCAGTTGGCGGCTCTC   2924   GCGTTTTGACTCGGTGGTCAGTCC   2925   TGTATGGAGGCACGGCAAAGTCTT   2926   TTACCTAGGTTCCCGCTGACACGC   2927   CGGCTCGTGGGAATCCTCTGAAGA   2928   CCGGCTCGGGCATTTCTTGGACCT   2929   CAACGATGGAATTGTCTCCTTGGG   2930   CGGGCTATTATCGGGATTATGGGG   2931   ACGTACCTGAAGATGCAACGCGG   2932   CATGGTGCAGCACGACAAGTAAC   2933   CGTCGATATGTCGGGCTATTGCCT   2934   AAATGCAGGGTTAAGAGGAGGCCC   2935   TGCAAGGACTGATTCTCCCGCTGT   2936   GTTTCGGAACGCCGCAGAGTTCA   2937   CCCTCGATGGTCATAATGTGGGAACAC   2938   CCTGTTCGCTCATAATGGGGGT   2939   GAAAGAACGATCGCGGAATAGCTG   2939   GAAAGAACGATCGCGGAATAGCTG   2940   TCCACCTGTGGCCTTTATCCTCA   2941   TCCTCCGTGAACGCCTGACGCA   2942   GCCCCAGAGGTCCCTA   2943   TTGAGATTTTACGGTTTCCCCGC   2944   CGATAGGACGGCATGCCAGCACACAC   2945   CCCGAACTTTGAGATCCCAG   2946   TCACGCAGCTAGAGTCCCAGCACACAC   2946   TCACGCAGCTAGAGTCCCGAGAACA   2946   TCACGCAGCTAGAGTCCCGAGAACA   2946   TCACGCAGCTAGAGTCCCAGCACATGC   2948   ACGCTTAGAGCCCACTGACGACATGC   2948   ACGCTTAGAGCTCCGATGCCGATTCCCAC   2948   ACGCTTAGAGCTCCGATGCCGATTCCCAC   2949   GGGCGATAACTTAAATTGTGCCGC   2940   GGGCGATAACTTAAATTGTGCCGC   2950   AGGACGTTCATGCGTTCTTTTGCA   2951   CGGCTGGTAGAACTGTGCATCGTA		2921	GCGTCTTGTGATTCTGCCCTAACC
2924   GCGTTTTGACTCGGTGGTCAGTCC		2922	AAACAACCATCAATGTCGGGTCCA
15 2925 TGTATGGAGGCACGGCAAAGTCTT 2926 TTACCTAGGTTCCCGCTGACACGC 2927 CGGCTCGTGGGAATCCTCTGAAGA 2928 CCGGCTCGGGCATTTCTTGACCT 2929 CAACGATGGAATTGTCTCCTTGGG 2929 CAACGATGGAATTGTCTCCTTGGG 2930 CGGGCTATTATCGGGATTATGGGG 2931 ACGTACCTGAAGATGCAACGGCGG 2932 CATGGTGCAGCACGACAAGTAAC 2933 CGTCGATATGTCGGGCTATTGCCT 2934 AAATGCAGGGTTAAGAGGAGGCCC 2935 TGCAAGGACTGATTCTCCCGCTGT 2936 GTTTTCGGAACGCCGCAGAGTTCA 2937 CCCTCGATGGTTCATTGGGAAGAC 2938 CCTGTTCGCTCATAATGGTGGGGT 2939 GAAAGAACGATCGCGGAATAGCTG 2939 GAAAGAACGATCGCGGAATAGCTG 2940 TCCACCTGTGTGCCTTTATCCTCA 2941 TCCTCCGTGAACCGCTGTAGCGCA 2942 GCCCCAGAGAGTCCCTGCTCCTA 2943 TTGAGATTTTACGGTTTCCCCGC 2944 CGATAGGACGTGGGCATGCCCAG 2945 CCCGAACTTTGAGATCCGAGAACA 2946 TCACGCAGCTAGAGTCCCAG 2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGCTCCGATGCCGAAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTCCTTTTGCA 2951 CGGCTGGTAGCATCCTTTTGCA		2923	TGTAAAGACCAGTTGGCGGCTCTC
2926		2924	GCGTTTTGACTCGGTGGTCAGTCC
2927 CGGCTCGTGGGAATCCTCTGAAGA 2928 CCGGCTCGGGCATTTCTTGGACCT 2929 CAACGATGGAATTGTCTCCTTGG 2930 CGGGCTATTATCGGGATTATGGGG 2931 ACGTACCTGAAGATGCAACGGCGG 2932 CATGGTGCAGCACCACAAGTAAC 2933 CGTCGATATGTCGGCTATTGCCT 2934 AAATGCAGGGTTAAGAGGAGGCCC 2935 TGCAAGGACTGATTCCCCGCTGT 2936 GTTTTCGGAACGCCGCAGAGTTCA 2937 CCCTCGATGGTTCATTGGGAACGC 2938 CCTGTTCGCTCATAATGGTGGGGT 2939 GAAAGAACGATCGCGGAATAGCTG 2939 GAAAGAACGATCGCGGAATAGCTG 2940 TCCACCTGTGTGCCTTATCCCA 2941 TCCTCCGTGAACCGCTGTAGCGCA 2942 GCCCCAGAGGTCCCCTA 2943 TTGAGATTTTACGGTTCCCCGC 2944 CGATAGGACGTGGCATTCCCAG 35 2945 CCCGAACTTTGAGATCCCAGAACA 2946 TCACGCAGCTAGAGTCCCAG 2947 AGATAACGCCCACTGACGACATC 2948 ACGCTTAGAGCTCCGATACC 2948 ACGCTTAGAGCTCCGATACCCC 2949 GGGCGATAACTTAAATTGTGCCCC 40 2950 AGGACGTTCATGCGTCCTTTTCCA 40 2951 CGGCTGGTAGAACTGTGCATCGTA	15	2925	TGTATGGAGGCACGGCAAAGTCTT
2928		2926	TTACCTAGGTTCCCGCTGACACGC
2929 CAACGATGGAATTGTCTCCTTGGG 2930 CGGGCTATTATCGGGATTATGGGG 2931 ACGTACCTGAAGATGCAACGGCGG 2932 CATGGTGCAGCACGACAAGTAAC 2933 CGTCGATATGTCGGGCTATTGCCT 2934 AAATGCAGGGTTAAGAGGAGGCCC 2935 TGCAAGGACTGATTCTCCCGCTGT 2936 GTTTTCGGAACGCCGCAGAGTTCA 2937 CCCTCGATGGTTCATTGGGAAGAC 2938 CCTGTTCGCTCATAATGGTGGGGT 2939 GAAAGAACGATCGCGGAATAGCTG 2940 TCCACCTGTGTGCCTTATCCTCA 2941 TCCTCCGTGAACGCCTGTAGCGCA 2942 GCCCCAGAGATCCCTGCTCCCTA 2943 TTGAGATTTTACGTTCCCCGC 2944 CGATAGGACGTGTCCCAG 2945 CCCGAACTTTGAGATCCCAG 2946 TCACGCAGCTAGATCCCAG 2947 AGATAACGCCCACTGACGACATC 2948 ACGCTTAGAGCTCCCAAT 2949 GGCGATAACTTAAATTGTGCCG 40 2950 AGGACGTTCATGCGTTACCTA		2927	CGGCTCGTGGGAATCCTCTGAAGA
2930		2928	CCGGCTCGGGCATTTCTTGGACCT
2931 ACGTACCTGAAGATGCAACGGCGG 2932 CATGGTGCAGCACACGCACAAGTAAC 2933 CGTCGATATGTCGGCTATTGCCT 2934 AAATGCAGGGTTAAGAGGAGGCCC 2935 TGCAAGGACTGATTCTCCCGCTGT 2936 GTTTTCGGAACGCCGCAGAGTTCA 2937 CCCTCGATGGTTCATTGGGAAGAC 2938 CCTGTTCGCTCATAATGGTGGGGT 2939 GAAAGAACGATCGCGGAATAGCTG 2940 TCCACCTGTGTGCCTTTATCCTCA 2941 TCCTCCGTGAACCGCTGTAGCGCA 2942 GCCCCAGAGAGTCCCTGA 2943 TTGAGATTTTACGGTTCCCCGC 2944 CGATAGGACGTGGGCATGTCCCAG 2945 CCCGAACTTTGAGATCCCAG 35 2945 CCCGAACTTTGAGATCCGAGAACA 2946 TCACGCAGCTAGAGTCGCGTTACC 2947 AGATAACGCCCACTGACGACATC 2948 ACGCTTAGAGCTCCGATGCCGAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTTACTA		2929	CAACGATGGAATTGTCTCCTTGGG
2932 CATGGTGCAGCACGCACAAGTAAC 2933 CGTCGATATGTCGGGCTATTGCCT 2934 AAATGCAGGGTTAAGAGGAGGCCC 2935 TGCAAGGACTGATTCTCCCGCTGT 2936 GTTTTCGGAACGCCGCAGAGTTCA 2937 CCCTCGATGGTTCATTGGGAAGAC 2938 CCTGTTCGCTCATAATGGTGGGGT 2939 GAAAGAACGATCGCGGAATAGCTG 2940 TCCACCTGTGTGCCTTTATCCTCA 2941 TCCTCCGTGAACCGCTGTAGCGCA 2942 GCCCAGAGGTCCCTGA 2943 TTGAGATTTTACGTCCCGC 2944 CGATAGGACGTGGGCATTCCCAG 2945 CCCGAACTTTGAGATCCCAG 35 2945 CCCGAACTTTGAGATCCGAGAACA 2946 TCACGCAGCTAGAGTCCCTGCTCCCT 2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGTCCCGATGCCGAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTCTCTTA	20	2930	CGGGCTATTATCGGGATTATGGGG
2933 CGTCGATATGTCGGGCTATTGCCT 2934 AAATGCAGGGTTAAGAGGAGGCCC 2935 TGCAAGGACTGATTCTCCCGCTGT 2936 GTTTTCGGAACGCCGCAGAGTTCA 2937 CCCTCGATGGTTCATTGGGAAGAC 2938 CCTGTTCGCTCATAATGGTGGGGT 2939 GAAAGAACGATCGCGGAATAGCTG 30 2940 TCCACCTGTGTGCCTTTATCCTCA 2941 TCCTCCGTGAACCGCTGTAGCGCA 2942 GCCCCAGAGAGTCCCCTA 2943 TTGAGATTTTTACGGTTTCCCCGC 2944 CGATAGGACGTGGGCATGTCCCAG 2945 CCCGAACTTTGAGATCCGAGAACA 2946 TCACGCAGCTAGAGTCCCGTTACC 2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGCTCCGATGC 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCATCCTA		2931	ACGTACCTGAAGATGCAACGGCGG
2934 AAATGCAGGGTTAAGAGGAGGCCC 2935 TGCAAGGACTGATTCTCCCGCTGT 2936 GTTTTCGGAACGCCGCAGAGTTCA 2937 CCCTCGATGGTTCATTGGGAAGAC 2938 CCTGTTCGCTCATAATGGTGGGGT 2939 GAAAGAACGATCGCGGAATAGCTG 2940 TCCACCTGTGTGCCTTTATCCTCA 2941 TCCTCCGTGAACCGCTGTAGCGCA 2942 GCCCCAGAGAGTCCCTGCTCCCTA 2943 TTGAGATTTTTACGGTTTCCCCGC 2944 CGATAGGACGTGGGCATGTCCCAG 2945 CCCGAACTTTGAGATCCGAGAACA 2946 TCACGCAGCTAGAGTCGCGTTACC 2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGCTCCGATGC 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCATC		2932	CATGGTGCAGCACGCACAAGTAAC
2935         TGCAAGGACTGATTCTCCCGCTGT           2936         GTTTTCGGAACGCCGCAGAGTTCA           2937         CCCTCGATGGTTCATTGGGAAGAC           2938         CCTGTTCGCTCATAATGGTGGGGT           2939         GAAAGAACGATCGCGGAATAGCTG           30         2940         TCCACCTGTGTGCCTTTATCCTCA           2941         TCCTCCGTGAACCGCTGTAGCGCA           2942         GCCCCAGAGAGTCCCTGCTCCCTA           2943         TTGAGATTTTTACGGTTTCCCCGC           2944         CGATAGGACGTGGGCATGTCCCAG           2945         CCCGAACTTTGAGATCCGAGAACA           2946         TCACGCAGCTAGAGTCGCGTTACC           2947         AGATAACGCCCACTGACGACATGC           2948         ACGCTTAGAGCTCCGATGCCGAAT           2949         GGGCGATAACTTAAATTGTGCCGC           40         2950         AGGACGTTCATGCGTCTCTTTGCA           2951         CGGCTGGTAGAACTGTGCATCGTA		2933	CGTCGATATGTCGGGCTATTGCCT
2936 GTTTTCGGAACGCCGCAGAGTTCA 2937 CCCTCGATGGTTCATTGGGAAGAC 2938 CCTGTTCGCTCATAATGGTGGGGT 2939 GAAAGAACGATCGCGGAATAGCTG 2940 TCCACCTGTGTGCCTTTATCCTCA 2941 TCCTCCGTGAACCGCTGTAGCGCA 2942 GCCCCAGAGAGTCCCTGCTCCCTA 2943 TTGAGATTTTACGGTTTCCCCGC 2944 CGATAGGACGTGGGCATGCCCAG 35 2945 CCCGAACTTTGAGATCCGAGAACA 2946 TCACGCAGCTAGAGTCGCGTTACC 2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGCTCCGATGCCGAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTAC		2934	AAATGCAGGGTTAAGAGGAGGCCC
2937 CCCTCGATGGTTCATTGGGAAGAC 2938 CCTGTTCGCTCATAATGGTGGGGT 2939 GAAGAACGATCGCGGAATAGCTG 2940 TCCACCTGTGTGCCTTTATCCTCA 2941 TCCTCCGTGAACCGCTGTAGCGCA 2942 GCCCCAGAGAGTCCCTGCTCCCTA 2943 TTGAGATTTTTACGGTTTCCCCGC 2944 CGATAGGACGTGGGCATGTCCCAG 35 2945 CCCGAACTTTGAGATCCGAGAACA 2946 TCACGCAGCTAGAGTCGCGTTACC 2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGTCCCGATGCCAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTTACC 2951 CGGCTGGTAGAACTGTCATCGTA	25	2935	TGCAAGGACTGATTCTCCCGCTGT
2938   CCTGTTCGCTCATAATGGTGGGGT		2936	GTTTTCGGAACGCCGCAGAGTTCA
2939   GAAAGAACGATCGCGGAATAGCTG		2937	CCCTCGATGGTTCATTGGGAAGAC
2940 TCCACCTGTGTGCCTTTATCCTCA  2941 TCCTCCGTGAACCGCTGTAGCGCA  2942 GCCCCAGAGAGTCCCTGCTCCCTA  2943 TTGAGATTTTTACGGTTTCCCCGC  2944 CGATAGGACGTGGGCATGTCCCAG  2945 CCCGAACTTTGAGATCCGAGAACA  2946 TCACGCAGCTAGAGTCGCGTTACC  2947 AGATAACGCCCACTGACGACATGC  2948 ACGCTTAGAGCTCCGATGCCGAT  2949 GGGCGATAACTTAAATTGTGCCGC  40 2950 AGGACGTTCATGCGTCTCTTTGCA  2951 CGGCTGGTAGAACTGCATCGTA		2938	CCTGTTCGCTCATAATGGTGGGGT
2941 TCCTCCGTGAACCGCTGTAGCGCA 2942 GCCCCAGAGAGTCCCTGCTCCCTA 2943 TTGAGATTTTTACGGTTTCCCCGC 2944 CGATAGGACGTGGGCATGTCCCAG 35 2945 CCCGAACTTTGAGATCCGAGAACA 2946 TCACGCAGCTAGAGTCGCGTTACC 2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGCTCCGATGCCGAAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTCTCTTTGCA 2951 CGGCTGGTAGAACTGTACTCGTA		2939	GAAAGAACGATCGCGGAATAGCTG
2942 GCCCAGAGAGTCCCTGCTCCCTA  2943 TTGAGATTTTTACGGTTTCCCCGC  2944 CGATAGGACGTGGGCATGTCCCAG  2945 CCCGAACTTTGAGATCCGAGAACA  2946 TCACGCAGCTAGAGTCGCGTTACC  2947 AGATAACGCCCACTGACGACATGC  2948 ACGCTTAGAGCTCCGATGCCGAT  2949 GGGCGATAACTTAAATTGTGCCGC  40 2950 AGGACGTTCATGCGTCTCTTTGCA  2951 CGGCTGGTAGAACTGCATCGTA	30	2940	TCCACCTGTGTGCCTTTATCCTCA
2943 TTGAGATTTTTACGGTTTCCCGC 2944 CGATAGGACGTGGGCATGTCCCAG 35 2945 CCCGAACTTTGAGATCCGAGAACA 2946 TCACGCAGCTAGAGTCGCGTTACC 2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGCTCCGATGCCGAAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTCTCTTTGCA 2951 CGGCTGGTAGAACTGCATCGTA		2941	TCCTCCGTGAACCGCTGTAGCGCA
2944 CGATAGGACGTGGGCATGTCCCAG  2945 CCCGAACTTTGAGATCCGAGAACA  2946 TCACGCAGCTAGAGTCGCGTTACC  2947 AGATAACGCCCACTGACGACATGC  2948 ACGCTTAGAGCTCCGATGCCGAAT  2949 GGGCGATAACTTAAATTGTGCCGC  40 2950 AGGACGTTCATGCGTCTCTTTGCA  2951 CGGCTGGTAGAACTGTCATCGTA	:	2942	GCCCCAGAGAGTCCCTGCTCCCTA
2945 CCCGAACTTTGAGATCCGAGAACA 2946 TCACGCAGCTAGAGTCGCGTTACC 2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGCTCCGATGCCGAAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTCTCTTTGCA 2951 CGGCTGGTAGAACTGCATCGTA	!	2943	TTGAGATTTTTACGGTTTCCCCGC
2946 TCACGCAGCTAGAGTCGCGTTACC 2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGCTCCGATGCCGAAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTCTCTTTGCA 2951 CGGCTGGTAGAACTGCATCGTA		2944	CGATAGGACGTGGGCATGTCCCAG
2947 AGATAACGCCCACTGACGACATGC 2948 ACGCTTAGAGCTCCGATGCCGAAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTCTCTTTGCA 2951 CGGCTGGTAGAACTGTGCATCGTA	35	2945	CCCGAACTTTGAGATCCGAGAACA
2948 ACGCTTAGAGCTCCGATGCCGAAT 2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTCTCTTTGCA 2951 CGGCTGGTAGAACTGTGCATCGTA		2946	TCACGCAGCTAGAGTCGCGTTACC
2949 GGGCGATAACTTAAATTGTGCCGC 40 2950 AGGACGTTCATGCGTCTCTTTGCA 2951 CGGCTGGTAGAACTGTGCATCGTA		2947	AGATAACGCCCACTGACGACATGC
40 2950 AGGACGTTCATGCGTCTCTTTGCA 2951 CGGCTGGTAGAACTGTGCATCGTA		2948	ACGCTTAGAGCTCCGATGCCGAAT
2951 CGGCTGGTAGAACTGTGCATCGTA		2949	GGGCGATAACTTAAATTGTGCCGC
	40	2950	AGGACGTTCATGCGTCTCTTTGCA
2952 TTCGAAATGTACTTCCCACGCGGA		2951	CGGCTGGTAGAACTGTGCATCGTA
		2952	TTCGAAATGTACTTCCCACGCGGA

2953   GCAGGTTGGCTGTCTTGTGAGTC   2954   CGTTTGGTTGCTCAAGAACCGGT   2955   CATACTTGGTTGTTGTGCCACGC   2956   GGGGTCGGCTGAAGTGTTTTATCC   2957   GTGACGGTTGATTAACGACCGTGG   2958   CTTATGGCAGCGCAGGGCACTC   2959   GTTAGGCAGCCACCCTGGTTTGAT   2960   CAATATAAATGCCGCGCATCGAGT   2961   TTCTTCATCAGCAGTCCCCAGAAA   2962   AGTTGCGTCCCTTGATGGCATTCTT   2963   CCGACTTTCGTCACCAGTTCCTCT   2964   ACTTGGCCAGCACACACACACCACCTGTTTA   2965   CACCGCGGTAGATGATCCCTTC   2966   GTTAGCTTTAGCTCACCACACCCCTG   2967   GCGCATAAGAACC   2968   ACATCATCACGCCTGGCACCACCACACACACC   2968   ACATCATCACGCCTGGCGTGACCA   2969   CCGGCGAAGTTTGTGCTAAAGC   2969   CCGGCGAAGTTTGTGTGATTAGA   2970   TGGAAGGCAACATGAAAGTCCTT   2971   TGCACCGCCAGATTGTCCTGAGTC   2972   ACATGTGAAGTGACTGCACCCT   2974   CAATAGCCATGTCACTGCACCGCT   2974   CAATAGCCATGTCACTGCAACGC   2975   ACCCATGGTTCCACACGTTCTTCC   2976   AATCTGGTCTTGCAACGCACCCGCT   2976   AATCTGGTCTTGAGCAACACACGGACACCCGCT   2978   AGTGTTCTGGTTCGAGTCGACCCG   2979   CGGGTATTCGACACACACCACGAGACCCGCT   2980   AGTGCAACAGAGCGCTTGGTCACCGCTTCCACCCCCCCCC
2955 CATACTTGGTTGTTGTCCCACGC 2956 GGGGTCGGCTGAAGTGTTTTATCC 2957 GTGACGGTTGATTAACGACCGTGG 2958 CTTATGGCAGCGCCAGGGGCACTC 2959 GTTAGGGAGCCCACCTCGTTTGAT 2960 CAATATAAATGCCGCGCATCGAGT 2961 TTCTTCATCAGCAGTCCCCGAGAA 2962 AGTTGCGTCCCTTGATGGCATTTT 2963 CCGACTTTCGTCCACGATTCCTCT 2964 ACTTGGCCGGACACACCACCTCTT 2965 CACCGCGGTAGATGATCCTCT 2966 GTTAGCTTTAGCTCGCACGACACACACAC 2965 CACCGCGGTAGATGTATCCCTTCC 2966 GTTAGCTTTAGCTCGGCACGCCTG 2969 CCGCCATAAGAAGGTCCGCTAAAGC 2969 CCGGCGAAGTTTGGTGATTAGA 2970 TGGGAAGGCAACATGAAAGTCCTT 2971 TGCACCGCCAGATTGTGCTGAGTC 2972 ACATGTGAAGTGAGTGCCGCCAA 2973 CCTCTGGAGGGGATTAGCCACGCT 2974 CAATAGCCATGTCACTGCCACCGCT 2975 ACCCATGGTTCCACCGCTCCAA 2976 AATCTGGTCTTGGCATCCTCCAAA 2977 GTATACCGGTGCATCCTCCAAA 2978 AGTGTTCGACTCGACCCCG 2979 CGGGTATTCGACACACACACGAGAC 2980 AGTGCAACAGAGCGCTTGGTCACCG 2980 AGTGCAACAGAGCGCTTGGTCACCG 2980 AGTGCAACAGAGCGCTTGGTCACCG 2981 TGCACCTATAGTTTGGTGCCACCG
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5         2957         GTGACGGTTGATTAACGACCGTGG           2958         CTTATGGCAGCGCCAGGGGCACTC           2959         GTTAGGGGACCCACCTCGTTTGAT           2960         CAATATAAATGCCGCGCATCGAGT           2961         TTCTTCATCAGCAGTCCCCGAGAA           2962         AGTTGCGTCCCTTGATGGCATTTT           2963         CCGACTTTCGTCCACGATTCCTCT           2964         ACTTGGCCGGACGACAGCAAAGAC           2965         CACCGCGTAGATGTATCCCTTCC           2966         GTTAGCTTTAGCTCGGCACGCCTG           2967         GCGCATAAGAAGGTCCGCTAAAGC           2968         ACATCATCACGCCTGGCGTGACCA           2969         CCGGCGAAGTTTGGTGTATTAGA           2970         TGGGAAGGCAACATGAAAGTCCTT           2971         TGCACCGCCAGATTGTGCTGAGTC           2972         ACATGTGAAGTGAGTGCCGTCCAA           2973         CCTCTGGAGGGGATTAGCCACGCT           2974         CAATAGCCATGTCACTGCAACGG           2975         ACCCATGGTTCCACGTTCTTTCG           2976         AATCTGGTCTTGGCATCCTCCAAA           2977         GTATACCGGTGCATGCTGAAGCAA           2978         AGTGTTCTGGTTCGAGTCGACCCG           2979         CGGGTATTCGACACACACAGAGCAC           2980         AGTGCACAAAGAGGCGCTTGGTCACG           2981
2958 CTTATGGCAGCGCAGGGCACTC 2959 GTTAGGGGACCCACCTCGTTTGAT 2960 CAATATAAATGCCGCGCATCGAGT 2961 TTCTTCATCAGCAGTCCCCGAGAA 2962 AGTTGCGTCCCTTGATGGCATTTT 2963 CCGACTTTCGTCCACGATTCCTCT 2964 ACTTGGCCGGACCACACACAAAGAC 2965 CACCGCGGTAGATGTATCCCTTCC 2966 GTTAGCTTTAGCTCGGCACGCCTG 2967 GCGCATAAGACGCCACACCCAAAGCC 2968 ACATCATCACGCCTGGCGTGACCA 2969 CCGGCGAAGTTTGGTGTATTAGA 2970 TGGGAAGGCAACATGAAAGTCCTT 2971 TGCACCGCCAGATTTGCTGAGTC 2972 ACATGTGAAGTGACCACACCCT 2974 CAATAGCCATGTCACTGGCACCGCT 2975 ACCCATGGTTCCAACGTTCTTTCG 2976 AATCTGGTCTCAACGTTCTTTCG 2977 GTATACCGGTGCATCCAAA 2978 AGTGTTCTGAGTCGAACCAC 2980 AGTGCAACAGAGCCCTGGCTCACCGCCCCCCCCCCCCCC
2959   GTTAGGGGACCCACCTCGTTTGAT
2960
2961   TTCTTCATCAGCAGTCCCCGAGAA
10 2962 AGTTGCGTCCCTTGATGGCATTTT 2963 CCGACTTTCGTCCACGATTCCTCT 2964 ACTTGGCCGGACGACAGCAAAGAC 2965 CACCGCGGTAGATGTATCCCTTCC 2966 GTTAGCTTTAGCTCGGCACGCCTG 2967 GCGCATAAGAAGGTCCGCTAAAGC 2968 ACATCATCACGCCTGGCGTGACCA 2969 CCGGCGAAGTTTGGTGTGATTAGA 2970 TGGGAAGGCAACATGAAAGTCCTT 2971 TGCACCGCCAGATTGTGCTGAGTC 2972 ACATGTGAAGTGACGTCCAA 2973 CCTCTGGAGGGGATTAGCCACGCT 2974 CAATAGCCATGTCACTGCAACGG 2975 ACCCATGGTTCCAACGTTCTTCG 2976 AATCTGGTCTTGGCATCCTCAAA 25 2977 GTATACCGGTGCATCCTCAAA 2978 AGTGTTCTGGTTCGAGCACCG 2979 CGGGTATTCGACACACACAGAGAC 2980 AGTGCAACAGAGCCTTTGTCACCG 2981 TGCACCTATAGTTTGGTGCCGTT
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2965   CACCGCGGTAGATGTATCCCTTCC
2966   GTTAGCTTTAGCTCGGCACGCCTG
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2970 TGGGAAGGCAACATGAAAGTCCTT  2971 TGCACCGCCAGATTGTGCTGAGTC  2972 ACATGTGAAGTGAGTGCCGTCCAA  2973 CCTCTGGAGGGGATTAGCCACGCT  2974 CAATAGCCATGTCACTGGCAACGG  2975 ACCCATGGTTCCAACGTTCTTCG  2976 AATCTGGTCTTGGCATCCTCCAAA  25 2977 GTATACCGGTGCATGCTGAAGCAA  2978 AGTGTTCTGGTTCGAGTCGACCCG  2979 CGGGTATTCGACACACACGAGGAC  2980 AGTGCAACAGAGCGCTTGGTCACG  2981 TGCACCTATAGTTTGGTGCCGGTG
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2976 AATCTGGTCTTGGCATCCTCCAAA  2977 GTATACCGGTGCATGCTGAAGCAA  2978 AGTGTTCTGGTTCGAGTCGACCCG  2979 CGGGTATTCGACACACACGAGGAC  2980 AGTGCAACAGAGCGCTTGGTCACG  2981 TGCACCTATAGTTTGGTGCCGGTG
2977 GTATACCGGTGCATGCTGAAGCAA 2978 AGTGTTCTGGTTCGAGTCGACCCG 2979 CGGGTATTCGACACACACGAGGAC. 2980 AGTGCAACAGAGCGCTTGGTCACG 2981 TGCACCTATAGTTTGGTGCCGGTG
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2979 CGGGTATTCGACACACACGAGGAC. 2980 AGTGCAACAGAGCGCTTGGTCACG 2981 TGCACCTATAGTTTGGTGCCGGTG
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2981 TGCACCTATAGTTTGGTGCCGGTG
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2983 AGTCCACACCTCGAACGACAGGCG
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2986 TGTGCGTGCTTATGTTCCGGTCTC
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2988 CGAGAATCAAGGCGTACCATCTCG
2989 GCGTAGGCAGCCTCCAGGGAATGG
2990 GATGGTGTTTTCGCCAAGACCAAT
2991 CAAGCTAGGGACAGAATTGCCCAC
40 2992 TAAATAGGCGAAACCGTTCGTGGC
2993 TCAAGACCCGCAATGTGTTCATGT
2994 GCGGCTGGTAGACTCTTTGCACAA

ſ	2995	CAGGCGTAAACCTGAACCAAACGG
Ī	2996	GCCGATCTGTGCTGAGGTTCATCA
Ţ	2997	GATATCGCGTCGCAATATCACGCG
1	2998	CCCTGCACGATTAAGCCACCTGTA
5	2999	TGACATACAGATTTGTGTGGCCCC
	3000	GTTTGCGGCCGGTATTCACGATGT
	3001	TTTTACCTGGCCATTGGTGAGCTC
	3002	CTCTACTCAATCAGGGTGGGAGCG
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10	3004	CGAGGTCGGTAAGGAAAAGCTTGC
	3005	CTTTACGCAGGCACCTCCGAGCTG
	3006	CATTGTATGGCCACGTGATTGACG
Į	3007	GTACGGTGCGAGAGCGCCTAAGCG
	3008	TTCCATATGCCGAAATGGACACAA
15	3009	TACGCCTTCCGCTATAGCTCGTGA
	3010	CTGGCCGCTCGGCTAGCCATCAAT
	3011	CTGTACGCCACGCATGAAGGGTGA
ļ	3012	CTTACGCGTCCAATGACTGCCACC
	3013	CACATGGTAGAACTCGATCGGCAG
20	3014	CGCACCGGAAACTAGTGGATGTGT
j	3015	ACTATGGCAACCGACACTTGGTCC
į	3016	CTAGTTTGCGCTACCCACCTGCAA
1	3017	TAGTATCGCCCGACAATAGCCTGG
	3018	CCAATATTTACGGCCTGATCAGCG
25	3019	ATGGCTATCCCTTACTGGCTCGCC
	3020	CAAAACTTGGCAGGCTTGGGACTT
	3021	AATGACCGAGGCTGCAAGATTGAC
	3022	ATCATCTTTCGCCACCAGACATGG
	3023	CGTTATTACCGATGCACACGTTGC
30	3024	CACACTGGCAATCGCCTCCCTCGT
•	3025	AGGTTGGTAGGAAATCGGAGCGCT
	3026	GCTGAACCACTGTGGTCAAGATGC
	3027	CGTTGAGTACGACACGGTCGAGGT
	3028	TTTTTCCGCCGCAATGTGATCTAA
35	3029	ACAATACCTCGACCGCTCAGCATC
	3030	AGTATCCCTGCTGGCATACACGGG
	3031	TCTTGGGCTCGGTAGTTCAGCACT
•	3032	CCCTATATCGAGCCCATAGGGCGA
•	3033	CACGAGTGGCATCAACGGCCTACT
40	3034	TGCAGGGTCCGATGTTTCAAGTA
	3035	GCTTGACCGCTGCTAACCTCGTAC
	3036	TTTTGCATCTCTCCACCATCCAGA

· [	3037	AGAATGTGCACCGGCTTCCATCTT
	3038	TGTTATGACCCGCTCTGTGGCGTG
{	3039	GGAGCTCCTGTTTCATCGAGGCTA
<b>[</b>	3040	CATTTTGCTGTTTGGGGGTCCCAT
5	3041	CCCGCTCCTTCACGTGAGACGAGA
Ţ	3042	GCGCTCAAGTCGATTGCCACAACC
	3043	CGGTTGACGGAGACCGCAGTACTT
	3044	ACTCAAGACCGGTGCACCTCCAGC
	3045	TGGATGTCGAGCGTGTCTGAGTTT
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	3047	GCGGCGTTAGCTCGAGCTAACAAA
	3048	GGGTATCCTGCCCGAGCAGTAATT
	3049	GGCTCCGAATCTCTTGTCCGGTCT
	3050	AGGATGGCCACGCCGAATCAAAGT
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	3053	ACTCCGCTTCAATGGAGACCGTTG
	3054	GATCGGAATTCGCCGCCATATTGA
	3055	ATGCGTGCCCATGGAATGACTTTT
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	3058	TGATATGCATCGCTGAGCCTCTGT
	3059	AGCTTCACACGCTCACTGAACCTG
	3060	AACCCGGAACCTCCTCTCACTCGG
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	3062	GTAGCTGGCAACAGGCAATCAGGA
	3063	CTTGTCACGAATATTCGCCAAGCG
	3064	CAGTATCTGAAACACGGGGTGCTG
	3065	GGCTAAAATGGGCGCCCACGTGTA
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	3068	GGAACTAGATTGCCAGTGCTCGCC
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	3070	GGTACTGTTAGCTCGACGATGGCC
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	3072	AATTCCGGGTTTGAACGGTTGGAA
	3073	GACACGCAATCGGGTCTATGCGAA
•	3074	GATTTTGGCGTCTCATTGCGTGAT
	3075	TGCCATAGGGAGGAAACGCAATTA
40	3076	GAGGTGCCCATGTTAGTGGTGTCC
	3077	GCTTTAGCGGTCATACGACCACCA
	3078	CCGCTACCAACAATCCGATTAACG

3079   CATAGTGGGCTGAAACCCCAGGAA   3080   GAGGATCTGGCCACATCGAGAAAG   3081   CTCGTTTGGTACCACGTTTTGCCG   3082   AATACACGCGGCGTAAACAGACGA   3082   AATACACGCGGCGTAAACAGACGA   3084   ACAGCACTTCGGACCAGTTTGCC   3084   ACAGCACTTCCGACCGGTGTACCA   3085   CTCCGTAAAGACACAGCTTTGCC   3086   ACGACAGGTAGGATCGGTCTC   3087   TGGATCCACCTTTACGGCGCCATCG   3088   AGTATCAAATAGCGGCGCGATCG   3089   GAATTACATTGTGGATGGAGCCGG   3090   CTCCTCGGGGAGTCGAGTACG   3091   AGTGTCAGCCCAACTCCCACCAT   3092   AAATACATTGCGCTTGGCCAAGC   3094   AGTGTCAGCCAACTCCCACCAT   3093   CGAATCATATCGCCATCGAACTG   3094   TATAATGCACTCGCTTTGGCCACAGC   3095   GCCAAGCAGAACTGTTGGACCA   3095   GCCAAGCAGATGTAATTATGGCG   3096   CACGCGGGAAACCACTCGAACT   3097   TACCCGAAAATTTGGAGAACACCG   3098   TGACGGCAAACTGTGCATCTATC   3099   CACAGTTTTCAGCCCATCAATTATGCG   3101   TGGCATATTTAAGATTCGGCGACG   3102   ACTGAAAAAAGAACGGGTAGCAG   3102   ACTGAAAAAAGAACGGGTAGCGG   3103   TCTGACCGCAAATAGGTGGTCATTG   3104   ACTTTTTGGCGGGCCTCTCTCTT   3105   CTGCCCAGAATTAGCGGC   3106   CGGAGGTTAAATGTTGCGCGATCCG   3107   AGGCGTCACAATGTGGCGTTCCG   3106   CGGAGGTTAAATGGCTCTTCTGT   3107   AGGCGTCTCCAAACGTCCTTCTGT   3107   AGGCGTCTCAAAACGTCCTTCTGT   3107   AGGCGTCTCCAAACGTCCTTCTGT   3107   AGGCGTCCAAAACGTCCTTCTGT   3107   AGGCGTCTCCAAACGTCCTTCTGT   3107   AGGCGTCTCCAAACGTCCTTCTGT   3107   AGGCGTCTCCAAACGTCCTTCTGT   3107   AGGCGTCTCCAAACGTCCTTCTGT   3107   AGGCGTCTCAAACGTCCTTCTGT   3107   AGGCGTCTCAAACGTCCTCTCTCTTCTTCATCTAACTTTAACGAACACAGAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAAAAGAAACGAAACAGAAACGAAAAGAAACAAAAAA	_		
3081 CTCGTTTGGTACCACGTTTTGCCG 3082 AATACACGCGGCGTAAACAGACGA 3083 TGTCATGGGCCAAATGACAGTGGC 3084 ACAGCACTTCCGACCCGTGTACGA 3085 CTCCGTAAAGAGCACAGCTTTGCC 3086 ACAGACAGGTAGGGATCGGTCCTC 3087 TGGATCCACCTTACCGCCCATCG 3088 AGTACCAACTTGCACCGCCATCG 3089 GAATTACAATTGTGGATGAGAGGCGG 3090 CTCCTCGGGGAGTCGGAGACGG 3091 AGTGTCAGACCACCACCAAT 3092 AAATGACATCCGTTTGGCCACCAAT 3092 AAATGACATCCGTTTGGCCACCACCAAT 3093 CGAATCATATCGCATCGACCACCAC 3094 TATAATGCACTCCGTTTGGTCCGCA 3095 GCCAAGCAGTAATATATGCG 3096 CACGCGGGAAGAGCACGTACACAC 3097 TACCCGAGAATTTGAGAACTCG 3098 TGACGGCAACTGTCACACCG 3099 CACAGTGTTCCAGCCTTTGACCAT 3099 CACAGTGTTCCAGCCCTTTGACCAT 3099 CACAGTGTTCCAGCCCTTGACCAT 3100 TACCCCCACCATAAAATTAGGC 3101 TGGCATATTTAAGATTCGCCACCGG 3102 ACTGAAAAAAGAACGGGTAGCACG 3103 TCTGACCCCACAATAGGAGGTAGCGG 3104 ACTTTTTGGCGGACCGG 3105 CTGCCCAGAATATTTAACCGGC 3106 CGGAGGTTAAATGCTCTTCCG 3107 AGGCGTCTCCAAACCTCTTCTT 3108 AGATGCTATCAACGTCCTTCGT 3109 ACAGGGTAACACTCCGC 3109 ACAGGGTTAAATGCTTTAACCGGC 3100 ACTGAAAAAAGAACGCGTGGGATCG 3101 TGCCTCCAAACCTCCTTCTGT 3102 ACTGAACAAAATAGCCCCTTCTCGT 3103 TCTGACCGCAATATGTAACCGGC 3104 ACTTTTTGCGGGACCCG 3107 AGGCGTCTCCAAACCTCCTTCTGT 3108 AGATGCTATCACGACACACACG 3110 ACCTGTTAACGACACCACACG 3111 AGCTGTTAACGGACCACACACG 3111 AGCTGTTAACGGACCACACACG 3111 AGCTGTTAACGGACCCCACACACG 3111 TTGCGTAACTGTAACGGACACACACG 3111 TTGCGTAACTGTAACGGCAACCCGT 3111 TTGCGTAACTGTAACGGCAACCCGGT 3111 TTAACGGCGCTCCCCACAACCGTGTATTCACG 3111 AGCTGTTAACGGACCCCACACCGT 3111 TTAACGGCGTCCCCCCTCTCTCTTCTTCTTCTTTCTTCTTTCT		3079	CATAGTGGGCTGAAACCCCAGGAA
3082   AATACACGCGGCGTAAACAGACGA		3080	GAGGATCTGGCCACATCGAGAAAG
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3105 CTGCCCAGATCATTGCGCGATCCG.  3106 CGGAGGTTAAATGCTTTAACCGGC  3107 AGGCGTCTCCAAACGTCCTTCTGT  3108 AGATGCTATCCTGAGTGGGCCTGC  3109 ACAGGGTGAAGAGACCGTGGGATG  3110 GACTGTCTAACGGACGACACCGGCG  3111 AGCTGTTAGGACCCGACAACCGGT  3112 TTGCGTAGTGTGGGCATTTCCTCT  35 3113 ATGCGCGCTTCTTTCCTTGATGTA  3114 TTAAGGGCGTCCGCGTCTATTCAG  3115 ACCTTTAAACTTGTACCGCGGCCC  3116 AGGGATGCAGAGGCACCACATGTT  3117 CGGTTCGACGTATGAGCATCCGCA  40 3118 CAGGGCGATAGTCACATGGAGGTT  3119 GCTTGACTGCCCCGTTTCATATGT	25	3103	TCTGACCGCAATAGGTGGTCATTG
3106 CGGAGGTTAAATGCTTTAACCGGC 3107 AGGCGTCTCCAAACGTCCTTCTGT 3108 AGATGCTATCCTGAGTGGGCCTGC 3109 ACAGGGTGAAGAGACCGTGGGATG 3110 GACTGTCTAACGGACGACACCGGC 3111 AGCTGTTAGGACCCGACAACCGGT 3112 TTGCGTAGTGTGGGCATTTCCTCT 35 3113 ATGCGCGCTTCTTTCCTTGATGTA 3114 TTAAGGGCGTCCGCGTCTATTCAG 3115 ACCTTTAAACTTGTACCGCGGCCC 3116 AGGGATGCAGAGGCACCACATGTT 317 CGGTTCGACGTATGAGCATCCGCA 40 3118 CAGGGCGATAGTCACATGGAGGTT 3119 GCTTGACTGCCCCGTTTCATATGT		3104	ACTITITGGCGGGCCCTCTCTCGT
3107 AGGCGTCTCCAAACGTCCTTCTGT  3108 AGATGCTATCCTGAGTGGGCCTGC  3109 ACAGGGTGAAGAGACCGTGGGATG  3110 GACTGTCTAACGGACGACACCGACG  3111 AGCTGTTAGGACCCGACAACCGGT  3112 TTGCGTAGTGTGGGCATTTCCTCT  313 ATGCGCGCTTCTTTCCTTGATGTA  3114 TTAAGGGCGTCCGCGTCTATTCAG  3115 ACCTTTAAACTTGTACCGCGGCCC  3116 AGGGATGCAGAGGCACCACATGTT  3117 CGGTTCGACGTATGAGCATCCGCA  40 3118 CAGGGCGATAGTCACATGAGGTT  3119 GCTTGACTGCCCCGTTTCATATGT		3105	CTGCCCAGATCATTGCGCGATCCG.
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3111 AGCTGTTAGGACCCGACAACCGGT  3112 TTGCGTAGTGTGGGCATTTCCTCT  3113 ATGCGCGCTTCTTTCCTTGATGTA  3114 TTAAGGGCGTCCGCGTCTATTCAG  3115 ACCTTTAAACTTGTACCGCGGCCC  3116 AGGGATGCAGAGGCACCACATGTT  3117 CGGTTCGACGTATGAGCATCCGCA  40 3118 CAGGGCGATAGTCACATGGAGGTT  3119 GCTTGACTGCCCCGTTTCATATGT		3109	ACAGGGTGAAGAGACCGTGGGATG
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3117 CGGTTCGACGTATGAGCATCCGCA 40 3118 CAGGGCGATAGTCACATGGAGGTT 3119 GCTTGACTGCCCCGTTTCATATGT		3115	ACCTTTAAACTTGTACCGCGGCCC
40 3118 CAGGGCGATAGTCACATGGAGGTT 3119 GCTTGACTGCCCCGTTTCATATGT	•	3116	AGGGATGCAGAGGCACCACATGTT
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	40	3118	CAGGGCGATAGTCACATGGAGGTT
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		3120	CGAAGGGTTGTGCAATTACCCGA

Γ	3121	AAAACGCACCGCAATGACAAAATT
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	3123	CCTACCTGCCTGCTAGCGGTGAGG
	3124	GCTCGTAAATGGGGAGGAATTGGA
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	3128	AGGGCATTTCGAACTCCATCTTT
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	3162	GAAGTCTGTCGCCGGTGGACGGAC

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Γ	3163	CCGTAACGTGTATTCGGACGAGCG
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10	3172	TACAGCCCGCTCTACCTCGCCACC
Ī	3173	TCAACCGATGTCAAAATGCACGTT
Ī	3174	AGCTCTCCGAAGTAGGGCGGTA
	3175	ACGCACACATGGAGACTTGGCTCC
	3176	TTCTTGAAAGCTAGTGGGGCGCTA
15	3177	CAATCACGGCTGGGCTATTCTGTG
	3178	GTGGCGACCCGTCGGTGAAAGAGT
	3179	CGTCGAATGCCGAACCAGTTAAGT
Ì	3180	TGCGTATTTGCATGCTCACAGCTG
	3181	CGCAGTTGGTTTGTGCACGGCTGC
20	3182	GTTTTTCCGTGAAAACTGGCATCG
	3183	ACAGGTTCCTCCACCACGATTTGA
	3184	CTAGCGCGCTTTTAGGTCCTTGCG
	3185	CAAAATCAAAGGGATCAACCGGTG
	3186	AACGTAACCCCAGTGAGTCAGGCA
25	3187	TCAACCGGTGCACTTTAGAACGCC
	3188	ATCGCAAAGTTGCAGGCGAATACT
	3189	ATATGTCCCTGGGTGCTGCACAAC
	3190	TGGCACTTTGTAGTGCTGCGGTGG
	3191	ACGCACGACGTCCTTCTAAGCTCG
30	3192	CCCACGTGCACTATAGGGATTTCG
	3193	CCGCGCTTGGTCAGTCATCCTTGC
	3194	AGCGGCTCAGGGAATAACAACAGG
į	3195	ACAACGCGATCGGAGGCAACCAGT
	3196	AGCAATTGCCTCCGTAGAAACCCA
35	3197	GAGTCGTGCATCGCCTGCTATCG
	3198	TCTATGCAAATACTGCGCTTGCGA
	3199	TCAGCTTAAGTTACGGTGTGGCCG
	3200	TCCAAGGTCGAACAGGGATCAGAA
	3201	GTTAGGCTGGCGTCAATAGCGCTT
40	3202	GGTGTCATAAGGAAGAGGGCATCG
	3203	CCGGCGGCTAGATCAATATTTCT
	3204	CTAACGTCAAGTTTTACGCCCCGA

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[	3205	GCAGCACAGTTTTCCGATTTGCGG
	3206	CGCACGCAAGGGGAGGGATGACTG
	3207	CGGGGCCGAAAAGGACGTCACAAG
	3208	TTCTCCAACACGGCTAACCGGTAG
5	3209	TTACAGCCTGGCCCGAGGTAGTTG
	3210	TTTCGGGCAGCATGAGTTATCGAA
:	3211	CTACTGGACGCCCTGCTTCGAAGT
	3212	GGTCGTCCGACGTGAAAAGACCAA
	3213	GTTTTCGAGCTCTTTCTCCGCAGG
10	3214	GCGTGAAGGTACCCAGTGTCACAG
	3215	TTTCTGAACGCTTCGACGCAACAC
	3216	TGCTAATAAGCACGCCTAGCCCGT
	3217	AAATTAATTGTGGTGGCTCCGGCG
	3218	TTACAATCCTCGGGCTCACTGACA
15	3219	GCTGAAGGACAAGGCGTGGGCAAC
	3220	GGGATAGGAGACCCTCGCAATGGT
	3221	TTGCAGTACGTCCTTGCGCATGAA
	3222	TTGATCACTGGATTGGGTGCGAAC
	3223	TCTGCAGACGTTGCGAGAGATGAT
20	3224	AGTCTAGCAGGGATCGAAGCGGAT
	3225	GGGGTCCCGCAACAACTAATGAAG
	3226	CAACCTCTTATGTGGTGTGCGCGA
	3227	CTCGCTGGGTTGCTGGAGTAGCAC
	3228	CGTTGTATTGTGCAACGCGAAGTT
25	3229	GGGCTCAAAGTGCCTGAGTCGAAA
	3230	CTGCTGTGCCCTCTCAGTGAGAGC
	3231	CGGACGTACTGTTCGGAGTCCTCA
	3232	GTATACCACCATACCGGGACCGCA
	3233	CTGCTGCGAAGGGAGACACGTCCG
30	3234	AAAGAACGTGGAGGATCCATTGGG
	3235	TCGATTGGCTGATCTCCAGCCTAC
	3236	CTGCGAATTCGAAGGTTGTTACGG
	3237	GCAGGAGGTCAGGAGTACGTGAG
	3238	ACCAACGGAAGGGAACTTAAGGGC
35	3239	ATGATGGAGGCTGCGTTTTGGTCG
	3240	AAGCCCAATTTACCGCTCCGAATA
	3241	CTAGGCTGTGCGGGACTAGAGGTG
•	3242	TGCCATCTGACCTGGTGATTGCGT
	3243	GTCGTCAACTTTTATCGCGCACCT
40	3244	TTGAATGTAGGCTGCTGCAAGCGC
	3245	CACCTATCGTGGCCTCTGTCCCAG
	3246	GGAGCGCCCAGTATAATGAACGTG

3247   AATGGGGGTTCTTAGGGTGCCGTA		_	
3249   TCCGGGTCGTACTGTGTATGATCG		3247	AATGGGGTTCTTAGGGTGCCGTA
3250   GGAGGTTATGTGCTGATGACG		3248	GCCATGAGGAAAAGCACTGGGTCT
3251   CTTCAGCCGTGAATGGTGTGAAAG		3249	TCCGGGTCGTACTGTGTATGATCG
3252   CTTCAAGGGCTTCGTCGTGGTG		3250	GGAGGTTATGTGCTGCTGATGACG
3252   CTTCAAGGGCTTCGTCGTCGTG	5	3251	CTTCAGCCGTGAATGGTGTGAAAG
3254   ACGGTCCTCGCATAATGGACCACT   3255   AGGCGTAAACGCCGGTCATAGTCT   3256   GATCTGGTCGGAAAACAGCAGCGC   3257   CCCATCGATGTTATTTCCGACGCA   3258   TGTTTCTCCGCATCAGTACCGCAT   3259   CGGACCCGGATCGACAGTAGTCA   3259   CGGACCCGGATCGACAGTAGTCA   3250   AGCCAGAGCATGAACTGGAGCGT   3260   AGCCAGAGCATGAACTAGAACCAGGG   3261   TGGAGTTTACATCGGAACGCAGG   3262   TCGACCACCGGTACGAACGAACGAAGG   3263   GCTTGTGGAATTCCGACGATTCCA   3264   CACATCCACCTACTGAGGCACAA   3265   GCCGGATGAATCGTCCACA   3266   GGTTGCAATTCGCCCGGGATTAAA   3267   ATTTCCTCGCAAATCGTCTGGGTG   3268   GCTCCTACGCCATGTGCACGTTTA   3269   AGGGTTGCAAACATGGGGTGA   3270   ACGCGACCTGTGTAACAGTGGTG   3271   CGCCTAACTAGGGGAGTGAACGGA   3272   GTTGACCTCGGGATTTGCTCACGA   3273   TACCTCCGTCATTCACTCTTCCCG   3274   GGCGTTCACATGTAATTGGGTCT   3275   CGCATCACGATCGTTTAGAGGGAGG   3276   GGCATTAACCACGCACTTCGTCA   3277   TTTCCATAATTCGACACCACGCGG   3278   GACCATGAGATGCTTTTCTTCGC   3279   CGCGGTCGTCCTCAGAGAATCTTG   3280   TGCTGTGACATGGTTTTCTTCCCG   3279   CGCGGTCGTCCTCAGAGAATCTTG   3280   TGCTGTGACATGGATCGTTACCCG   3278   GACCATGAGATGCTTTTCTTCGCA   3281   GGCGATGATCGTTTTCTTCGCATCACGT   3282   AATGCACACGCGGAACTGACCACACACGACGACTTCTTTCT		3252	CTTCAAGGGCTTCGTCTCCTCGTG
3255   AGGCGTAAACGCCGGTCATAGTCT		3253	TCAGGGGTCACGCATTGGGTTTCA
10   3256   GATCTGGTCGGAAAACAGGAGCGC   3257   CCCATCGATGTTATTTCCGACGCA   3258   TGTTTCTCCGCATCAGTACCGCAT   3259   CGGACCCGGATCGACAAGTAGTCA   3260   AGCCAGAGCATGAACTGGAGCGTC   3261   TGGACTTACATCGGACGCAGG   3262   TCGACCACCGGTACGATACAATCA   3263   GCTTGTGGAATTCCGACGGTTCCA   3264   CACATCCACCGTACTGAGGCACAA   3265   GCCGGATGAATCACAATCA   3266   GGTTGCAATTCACCCCTACTGAGGCACAA   3266   GGTTGCAATTACGCCGGGATTAAA   3267   ATTTCCTCGCAAATCGTCTGGGTG   3268   GCTCCTACGCCATGTGCACGTTTA   3269   AGGGTTGCAAACATGGGGGTGA   3270   ACGCGACCTGCTGTCACGGAGTGGACGAA   3271   CGCCTAACTAGGGGAGTGAACGGA   3272   GTTGACCTCCGGATTTGCACGA   3273   TACCTCCGTCATTCACCA   3274   GGCGTTCACTCTTCCCG   3274   GGCGTTCACATGTAATTGGGTCT   3275   CGCATCACGATCGTTAGGAGGAG   3276   GGGCATTAAGCACCACGCGG   3278   GACCATGAGATGCTTTTCTTCCCC   3279   CGCGGTCGTCCTCACACATGTTACTCTTCCCC   3279   CGCGGTCGTCCTCACACATGTTACTCTTCCCC   3279   CGCGGTCGTCCTCACACATGTTACCCCTCACCACACACAC		3254	ACGGTCCTCGCATAATGGACCACT
3257   CCCATCGATGTTATTTCCGACGCA		3255	AGGCGTAAACGCCGGTCATAGTCT
3258   TGTTTCTCGCATCAGTACCGCAT	10	3256	GATCTGGTCGGAAAACAGGAGCGC
3259   CGGACCCGGATCGACAAGTAGTCA	,	3257	CCCATCGATGTTATTTCCGACGCA
3260   AGCCAGAGCATGAACTGGAGCGTC     3261   TGGAGTTTACATCGGAACGCAGGG     3262   TCGACCACCGGTACGATACAATCA     3263   GCTTGTGGAATTCCGACGGTTCCA     3264   CACATCCACCCTACTGAGGCACAA     3265   GCCGGATGAATCTGCCTCGCTACA     3266   GGTTGCAATTACGCCGGGATTAAA     3267   ATTTCCTCGCAAATCGTCTGGGTG     3268   GCTCCTACGCCATGTGCACGTTTA     3269   AGGGTTGTGAACATGGGGGTGA     3270   ACGCGACCTGCTGTAGACGTGGTG     3271   CGCCTAACTAGGGGAGTGAACGGA     3272   GTTGACCTCCGGATTTGCTCACGA     3273   TACCTCCGTCATTACACTCTTCCCG     3274   GGCGTTCCACATGTAATTGGGTCT     3275   CGCATCACGATCGTTAGGAGGAG     3276   GGGCATTAAGCACCACGCGG     3277   TTTCCATAATTCGACACCACGCGG     3278   GACCATGAGATGCTTTTCTTGCGC     3279   CGCGGTCGTCCTCAGAGAATGTTG     3280   TGCTGTGACGATGGTCCTACCCG     3281   GGCGATTGTTCTCCACACACCACGCGG     3282   AAATGCACAGCGGAACTGACCACA     3283   TATCGACCTGGAACACCACCACA     3284   CATTGAAGTCATGAAGCCTGGTGG     3285   CTTTCAACCGTAGGTGGCTCTACCCA     3286   CCGGTAAGGTCGAATTGGAGCCTA     3287   GGATTGAAAAATCGCCGGAAGATC		3258	TGTTTCTCCGCATCAGTACCGCAT
15   3261   TGGAGTTTACATCGGAACGCAGGG     3262   TCGACCACCGGTACGATACAATCA     3263   GCTTGTGGAATTCCGACGGTTCCA     3264   CACATCCACCCTACTGAGGCACAA     3265   GCCGGATGAATCTGCCTCGCTACA     3266   GGTTGCAATTACGCCGGGATTAAA     3267   ATTTCCTCGCAAATCGTCTGGGTG     3268   GCTCCTACGCCATGTGCACGTTTA     3269   AGGGTTGTCGAAACATGGGGGTGA     3270   ACGCGACCTGCTGTCAGCGTGGTG     3271   CGCCTAACTAGGGGAGTGAACGGA     3272   GTTGACCTCCGGATTTGCTCACGA     3273   TACCTCCGTCATTCACTCTTCCCG     3274   GGCGTTCATCACTCTTCCCG     3274   GGCGTTCAGCATGTAATTGGGTCT     3275   CGCATCACGATCGTTAGGAGGGAG     3276   GGGCATTAAGCACGCACTTCGTCA     3277   TTTCCATAATTCGACACCACGCGG     3278   GACCATGAGATGCTTTTCTTGCGC     3279   CGCGGTCGTCCTCAGAGAATGTTG     3280   TGCTGTGACGATGGCTCCTACCCG     3281   GGCGATGCTTCTTCGCATCAAGT     3282   AAATGCACAGCGGAACTGACCACA     3283   TATCGACCTGGAACACGATCGGTT     3284   CATTGAAGTCATGAAGCCTGGTGG     3285   CTTTCAACCGTAGTGGCTTGGGCA     3286   CCGGTAAGGTCGAATTGGAGCCTA     3287   GGATTGAAAAATCGCCGGAAGATC		3259	CGGACCCGGATCGACAAGTAGTCA
3262   TCGACCACCGGTACGATACAATCA		3260	AGCCAGAGCATGAACTGGAGCGTC
3263   GCTTGTGGAATTCCGACGGTTCCA	15	3261	TGGAGTTTACATCGGAACGCAGGG
3264		3262	TCGACCACCGGTACGATACAATCA
3265   GCCGGATGAATCTGCCTCGCTACA		3263	GCTTGTGGAATTCCGACGGTTCCA
3266   GGTTGCAATTACGCCGGGATTAAA   3267   ATTTCCTCGCAAATCGTCTGGGTG   3268   GCTCCTACGCCATGTGCACGTTTA   3269   AGGGTTGTCGAAACATGGGGGTGA   3270   ACGCGACCTGCTGCAGCGTGGTG   3271   CGCCTAACTAGGGGAGTGAACGGA   3272   GTTGACCTCCGGATTTGCTCACGA   3273   TACCTCCGTCATTCACTCTTCCCG   3274   GGCGTTCCACATGTAATTGGGTCT   3275   CGCATCACGATCGTTAGGAGGGAG   3276   GGGCATTAAGCACGCACTTCGTCA   3277   TTTCCATAATTCGACACCACGCGG   3278   GACCATGAGATGCTTTTCTTGCGC   3279   CGCGGTCGTCCTCAGAGAATGTTG   3280   TGCTGTGACGATGGTCTACCCG   3281   GGCGAATGCTTCTTCGCATCAAGT   3282   AAATGCACAGCGGAACTGACCACA   3283   TATCGACCTGGAACACCACGCGG   3284   CATTGAAGTCATGAAGCCTGGTGG   3285   CTTTCAACCGTAGTGGCTTGGGCA   3286   CCGGTAAGGTCGAATTGGAGCCTA   3287   GGATTGAAAAATCGCCGGAAGATC		3264	CACATCCACCCTACTGAGGCACAA
3267   ATTTCCTCGCAAATCGTCTGGGTG     3268   GCTCCTACGCCATGTGCACGTTTA     3269   AGGGTTGTCGAAACATGGGGGTGA     3270   ACGCGACCTGCTGTCAGCGTGGTG     3271   CGCCTAACTAGGGGAGTGAACGGA     3272   GTTGACCTCCGGATTTGCTCACGA     3273   TACCTCCGTCATTCACTCTTCCCG     3274   GGCGTTCCACATGTAATTGGGTCT     3275   CGCATCACGATCGTTAGGAGGGAG     3276   GGGCATTAAGCACGCACTTCGTCA     3277   TTTCCATAATTCGACACCACGCGG     3278   GACCATGAGATGCTTTCTTGCGC     3279   CGCGGTCGTCCTCAGAGAATGTTG     3280   TGCTGTGACGATGGCTCCTACCCG     3281   GGCGAATGCTTCTTCGCATCAAGT     3282   AAATGCACAGCGGAACTGACCACA     3283   TATCGACCTGGAACACGATCGGTT     3284   CATTGAAGTCATGAAGCCTGGTGG     3285   CTTTCAACCGTAGTGGCTTGGGCA     400   3286   CCGGTAAGGTCGAATTGGAGCCTA     3287   GGATTGAAAAATCGCCGGAAGATC		3265	GCCGGATGAATCTGCCTCGCTACA
3268   GCTCCTACGCCATGTGCACGTTTA     3269   AGGGTTGTCGAAACATGGGGGTGA     3270   ACGCGACCTGCTGTCAGCGTGGTG     3271   CGCCTAACTAGGGGAGTGAACGGA     3272   GTTGACCTCCGGATTTGCTCACGA     3273   TACCTCCGTCATTCACTCTTCCCG     3274   GGCGTTCCACATGTAATTGGGTCT     3275   CGCATCACGATCGTTAGGAGGGAG     3276   GGGCATTAAGCACGCACTTCGTCA     3277   TITCCATAATTCGACACCACGCGG     3278   GACCATGAGATGCTTTTCTTGCGC     3279   CGCGGTCGTCCTCAGAGAATGTTG     3280   TGCTGTGACGATGGCTCCTACCCG     3281   GGCGAATGCTTCTTCGCATCAAGT     3282   AAATGCACAGCGGAACTGACCACA     3283   TATCGACCTGGAACACGATCGGTT     3284   CATTGAAGTCATGAAGCCTGGTGG     3285   CTTTCAACCGTAGTGGCTTAGGACCACA     3286   CCGGTAAGGTCGAATTGGAGCCTA     3287   GGATTGAAAAATCGCCGGAAGATC	20	3266	GGTTGCAATTACGCCGGGATTAAA
3269   AGGGTTGTCGAAACATGGGGGTGA	•	3267	ATTTCCTCGCAAATCGTCTGGGTG
3270   ACGCGACCTGCTGTCAGCGTGGTG		3268	GCTCCTACGCCATGTGCACGTTTA
3271   CGCCTAACTAGGGGAGTGAACGGA     3272   GTTGACCTCCGGATTTGCTCACGA     3273   TACCTCCGTCATTCACTCTTCCCG     3274   GGCGTTCCACATGTAATTGGGTCT     3275   CGCATCACGATCGTTAGGAGGGAG     3276   GGGCATTAAGCACGCACTTCGTCA     3277   TTTCCATAATTCGACACCACGCGG     3278   GACCATGAGATGCTTTTCTTGCGC     3279   CGCGGTCGTCCTCAGAGAATGTTG     3280   TGCTGTGACGATGGCTCCTACCCG     3281   GGCGAATGCTTCTTCGCATCAAGT     3282   AAATGCACAGCGGAACTGACCACA     3283   TATCGACCTGGAACACGATCGGTT     3284   CATTGAAGTCATGAAGCCTGGTGG     3285   CTTTCAACCGTAGTGGCTTGGGCA     3286   CCGGTAAGGTCGAATTGGAGCCTA     3287   GGATTGAAAAATCGCCGGAAGATC		3269	AGGGTTGTCGAAACATGGGGGTGA
3272 GTTGACCTCCGGATTTGCTCACGA  3273 TACCTCCGTCATTCACTCTTCCCG  3274 GGCGTTCCACATGTAATTGGGTCT  3275 CGCATCACGATCGTTAGGAGGGAG  3276 GGGCATTAAGCACGCACTTCGTCA  3277 TTTCCATAATTCGACACCACGCGG  3278 GACCATGAGATGCTTTTCTTGCGC  3279 CGCGGTCGTCCTCAGAGAATGTTG  3280 TGCTGTGACGATGGCTCCTACCCG  3281 GGCGAATGCTTCTTCGCATCAAGT  3282 AAATGCACAGCGGAACTGACCACA  3283 TATCGACCTGGAACACGATCGGTT  3284 CATTGAAGTCATGAAGCCTGGTGG  3285 CTTTCAACCGTAGTGGCTTGGGCA  40 3286 CCGGTAAGGTCGAATTGGAGCCTA		3270	ACGCGACCTGCTGTCAGCGTGGTG
3273 TACCTCCGTCATTCACTCTTCCCG  3274 GGCGTTCCACATGTAATTGGGTCT  3275 CGCATCACGATCGTTAGGAGGGAG  3276 GGGCATTAAGCACGCACTTCGTCA  3277 TTTCCATAATTCGACACCACGCGG  3278 GACCATGAGATGCTTTTCTTGCGC  3279 CGCGGTCGTCCTCAGAGAATGTTG  3280 TGCTGTGACGATGGCTCCTACCCG  3281 GGCGAATGCTTCTTCGCATCAAGT  3282 AAATGCACAGCGGAACTGACCACA  3283 TATCGACCTGGAACACGATCGGTT  3284 CATTGAAGTCATGAAGCCTGGTGG  3285 CTTTCAACCGTAGTGGCTTGGGCA  40 3286 CCGGTAAGGTCGAATTGGAGCCTA  3287 GGATTGAAAAATCGCCGGAAGATC	25	3271	CGCCTAACTAGGGGAGTGAACGGA
3274 GGCGTTCCACATGTAATTGGGTCT 3275 CGCATCACGATCGTTAGGAGGAG 3276 GGGCATTAAGCACGCACTTCGTCA 3277 TTTCCATAATTCGACACCACGCGG 3278 GACCATGAGATGCTTTTCTTGCGC 3279 CGCGGTCGTCCTCAGAGAATGTTG 3280 TGCTGTGACGATGGCTCCTACCCG 3281 GGCGAATGCTTCTTCGCATCAAGT 3282 AAATGCACAGCGGAACTGACCACA 3283 TATCGACCTGGAACACGATCGGTT 3284 CATTGAAGTCATGAAGCCTGGTGG 3285 CTTTCAACCGTAGTGGCCTA 40 3286 CCGGTAAGGTCGAATTGGAGCCTA 3287 GGATTGAAAAATCGCCGGAAGATC		3272	GTTGACCTCCGGATTTGCTCACGA
3275 CGCATCACGATCGTTAGGAGGAG  3276 GGGCATTAAGCACGCACTTCGTCA  3277 TTTCCATAATTCGACACCACGCGG  3278 GACCATGAGATGCTTTTCTTGCGC  3279 CGCGGTCGTCCTCAGAGAATGTTG  3280 TGCTGTGACGATGGCTCCTACCCG  3281 GGCGAATGCTTCTTCGCATCAAGT  3282 AAATGCACAGCGGAACTGACCACA  3283 TATCGACCTGGAACACGATCGGTT  3284 CATTGAAGTCATGAAGCCTGGTGG  3285 CTTTCAACCGTAGTGGCTTGGCCA  40 3286 CCGGTAAGGTCGAATTGGAGCCTA  3287 GGATTGAAAAATCGCCGGAAGATC		3273	TACCTCCGTCATTCACTCTTCCCG
3276 GGGCATTAAGCACGCACTTCGTCA  3277 TTTCCATAATTCGACACCACGCGG  3278 GACCATGAGATGCTTTTCTTGCGC  3279 CGCGGTCGTCCTCAGAGAATGTTG  3280 TGCTGTGACGATGGCTCCTACCCG  3281 GGCGAATGCTTCTTCGCATCAAGT  3282 AAATGCACAGCGGAACTGACCACA  3283 TATCGACCTGGAACACGATCGGTT  3284 CATTGAAGTCATGAAGCCTGGTGG  3285 CTTTCAACCGTAGTGGCTTGGCCA  3286 CCGGTAAGGTCGAATTGGAGCCTA  3287 GGATTGAAAAATCGCCGGAAGATC		3274	GGCGTTCCACATGTAATTGGGTCT
3277 TTTCCATAATTCGACACCACGCGG  3278 GACCATGAGATGCTTTTCTTGCGC  3279 CGCGGTCGTCCTCAGAGAATGTTG  3280 TGCTGTGACGATGGCTCCTACCCG  3281 GGCGAATGCTTCTTCGCATCAAGT  3282 AAATGCACAGCGGAACTGACCACA  3283 TATCGACCTGGAACACGATCGGTT  3284 CATTGAAGTCATGAAGCCTGGTGG  3285 CTTTCAACCGTAGTGGCTTGGGCA  40 3286 CCGGTAAGGTCGAATTGGAGCCTA  3287 GGATTGAAAAATCGCCGGAAGATC		3275	CGCATCACGATCGTTAGGAGGGAG
3278 GACCATGAGATGCTTTTCTTGCGC  3279 CGCGGTCGTCCTCAGAGAATGTTG  3280 TGCTGTGACGATGGCTCCTACCCG  3281 GGCGAATGCTTCTTCGCATCAAGT  3282 AAATGCACAGCGGAACTGACCACA  3283 TATCGACCTGGAACACGATCGGTT  3284 CATTGAAGTCATGAAGCCTGGTGG  3285 CTTTCAACCGTAGTGGCTTGGGCA  40 3286 CCGGTAAGGTCGAATTGGAGCCTA  3287 GGATTGAAAAATCGCCGGAAGATC	30	3276	GGGCATTAAGCACGCACTTCGTCA
3279 CGCGGTCGTCCTCAGAGAATGTTG  3280 TGCTGTGACGATGGCTCCTACCCG  3281 GGCGAATGCTTCTTCGCATCAAGT  3282 AAATGCACAGCGGAACTGACCACA  3283 TATCGACCTGGAACACGATCGGTT  3284 CATTGAAGTCATGAAGCCTGGTGG  3285 CTTTCAACCGTAGTGGCTTGGCCA  3286 CCGGTAAGGTCGAATTGGAGCCTA  3287 GGATTGAAAAATCGCCGGAAGATC		3277	
3280 TGCTGTGACGATGGCTCCTACCCG  3281 GGCGAATGCTTCTTCGCATCAAGT  3282 AAATGCACAGCGGAACTGACCACA  3283 TATCGACCTGGAACACGATCGGTT  3284 CATTGAAGTCATGAAGCCTGGTGG  3285 CTTTCAACCGTAGTGGCTTGGGCA  40 3286 CCGGTAAGGTCGAATTGGAGCCTA  3287 GGATTGAAAAATCGCCGGAAGATC		3278	GACCATGAGATGCTTTTCTTGCGC
3281 GGCGAATGCTTCTTCGCATCAAGT  3282 AAATGCACAGCGGAACTGACCACA  3283 TATCGACCTGGAACACGATCGGTT  3284 CATTGAAGTCATGAAGCCTGGTGG  3285 CTTTCAACCGTAGTGGCTTGGGCA  40 3286 CCGGTAAGGTCGAATTGGAGCCTA  3287 GGATTGAAAAATCGCCGGAAGATC		3279	CGCGGTCGTCCTCAGAGAATGTTG
3282 AAATGCACAGCGGAACTGACCACA 3283 TATCGACCTGGAACACGATCGGTT 3284 CATTGAAGTCATGAAGCCTGGTGG 3285 CTTTCAACCGTAGTGGCTTGGGCA 40 3286 CCGGTAAGGTCGAATTGGAGCCTA 3287 GGATTGAAAAATCGCCGGAAGATC		3280	TGCTGTGACGATGGCTCCTACCCG
3283 TATCGACCTGGAACACGATCGGTT 3284 CATTGAAGTCATGAAGCCTGGTGG 3285 CTTTCAACCGTAGTGGCTTGGGCA 40 3286 CCGGTAAGGTCGAATTGGAGCCTA 3287 GGATTGAAAAATCGCCGGAAGATC	35	3281	GGCGAATGCTTCTTCGCATCAAGT
3284 CATTGAAGTCATGAAGCCTGGTGG 3285 CTTTCAACCGTAGTGGCTTGGGCA 40 3286 CCGGTAAGGTCGAATTGGAGCCTA 3287 GGATTGAAAAATCGCCGGAAGATC		3282	AAATGCACAGCGGAACTGACCACA
3285 CTTTCAACCGTAGTGGCTTGGGCA 40 3286 CCGGTAAGGTCGAATTGGAGCCTA 3287 GGATTGAAAAATCGCCGGAAGATC		3283	TATCGACCTGGAACACGATCGGTT
40 3286 CCGGTAAGGTCGAATTGGAGCCTA 3287 GGATTGAAAAATCGCCGGAAGATC		3284	
3287 GGATTGAAAAATCGCCGGAAGATC		3285	
	40	3286	
3288 TGAAATTGTGAGGGAGCCTTAGCG		3287	
		3288	TGAAATTGTGAGGGAGCCTTAGCG

	3289	AGCGGGATCCCAGAGTTTCGAAAA
Ì	3290	CGAGTGTCACTGGTCGGTTGCTCA
	3291	GCAGCATCCGTTCCCCTATAGTGG
	3292	GTATTCCTGACCGGCTGAGTGTCG
5	3293	GCAGCGTATGGGGTTAGCCAATGA
	3294	CGCCCTGGTGGAGTTGTATGATGA
	3295	AGGTAGACTGCCCGCGGCAGAGCA
	3296	ATGCGTGAGGAACTGACTTCGGAC
	3297	ACGGGAGAGGACATGCATTTTCAA
10	3298	ATTCATGCAGGAAGTCCGAGGGAA
	3299	AGCTCTCCGAAGTAGGGCGGTA
į	3300	TGGCCCACATGATTGGAGCTCCAA
	3301	GCCCTTTGCTTGCATTGATTGATC
	3302	AGGAGATTCTTCGGCTCATCTCGC
15	3303	GCAGCTCCGCCAACGAACTTATAG
	3304	TGGGTCAGCTTCGGCCAGGCTGAT
	3305	ACGCTCAGCGTGCGCTAGATACGA
	3306	GCAACGAGAGCGAACGGTTAACTC
	3307_	GAACACAAACAGAGGTCGTCAGCG
20	3308	CGTGCGTTAGCGTCGGCGTATGTT
	3309	GTGCTAGCCGAAAGTAGCGTGCGA
	3310	CGCGGAGGTTTGCAAGTTGTTAAC
	3311	TACTGCCCGGCCTGAAATGACTTA
	3312	CATGCGCACATGAGGGTCACCTTT
25	3313	CTCGGGTTCTGAAAGCGATGCTTC
ļ	3314	GGCACACGAAGGCTGATGATA
	3315	GGAGGCCGAGTAACCTTGAGGGTC
	3316	ATTCCTATCGCGCGTGCTTCTAGC
	3317	TTGCCGGTGTGTTCGTGAGCTGTT
30	3318	TTATGGGAATCTACAAAGGGCCGG
	3319	GGGTGATCCAAAATCCACGGAGGC
• •	3320	GCGAGATGAGCAAATTGTATCCCG
	3321	CCTGCACACATCATGTCTCAATGC
	3322	GGCAGCGTAGGGATTTCCTAGGGG
35	3323	AGAGATTGCTCCTATGTCGGCAGC
	3324	CCAATACCCTGGTGACCACTCCAA
	3325	GACGTCTGTTATGTCGTCGCAAGG
	3326	CCACAACGTCGAAATGACCTACCA
	3327	CTTGGTGGCATGCATGCCTTGCCC
40	3328	TACGTTCGCCCGACGTGGAATAAA
{	3329	GGAAGAGAAACCGACAGTCGCGA
	3330	GACGAACAAGAATTTGGGGCAACC

3331 CGTGCCGCGAGTTCATGGTGCTA 3332 AAGAAAACCCTTTCCGGAGCTCA 3333 TITTAAATCTGCCGCCCTTCCATG 3334 TCTGAAGCAATTTGGCCTCCTCAA 3335 GATGCGCAAGAGGGTATTATGGC 3336 GTGAAAATCTGCGCAACTTCCTGGC 3337 ACGGGAAGCGGTGAATTGTTGGTA 3338 GCCTACTATTGCCTTGGCAATGA 3339 GTAAAATGCCAGGAAGCGGTCAATGA 3339 GTAAAATGCCAGGAAGCGGTCTCG 3340 AGGTGCCAAATAGTGGACTCGG 3341 TCGGATGGTAGGAGCGACTCGG 3342 GAGGTGAACAGCGACCGCAA 3343 ACCGTCGTTACCGCTCTGGTCAA 3344 TTCCAATGTCCGACATGACACTCCG 3345 CGGCTTTAACGGCCACACACTCCC 3346 CCGGCCTGAAACACACGCACCAA 3347 TTTATCGTTCAACGCTCACGTCCC 3348 AGACCCGCTGAAAGCAGAGTTATTG 3349 ATCCATCAGGAAGCAGAGTTATTG 3349 ATCCATCAGGAAGCAGACTTGGAT 3351 GCTTGCCAATGCTTCACG 3351 GCTTGCCAATGCTTTAGCCCCAAA 3352 AGGCTCCAATGCTTCACG 3354 GTTGCCAATGCTTTAGCCGCAAA 3353 GATACTAGGAGCAGCCCTTTGG 3354 GTTGCCAATGCTTTTAGCCGCAAA 3355 TACCCCTGTTGCGGATAGTGCG 3356 TAGCGTCGAAAACAGAAGCCCCTTTGG 3357 ATCGTGTCGGGGATCGATTTTAGA 3358 ATCTCTCGTGCGGGATAGTGCG 3359 AGAAGCCACATGTTAGAG 3359 AGAAGCCACATGTTAGAG 3359 AGAAGCCACATGTTAGCGGAAG 3359 AGAAGCCACATGTTAGCGGAAG 3360 ATCTGCGTTACTCCCACTGG 3361 TGCCAAACGAGAATGAGGGGCCT 3357 ATCGTGTCGGGGATCGAATTAGAG 3363 TTTAACACCGAAATGAGGAGCCTCC 3364 ACAGGGGTTTAACTGCCCCACTGG 3364 TCTACGGTTAACTGTCCCCACTGG 3364 ACAGGGGTTTAACTGCCCCACTGA 3366 TTTAACACCGAAATGGAGCCGCTTCC 3367 TTGGGTTTAACTGCCCCACTGA 3368 ACCTCACAAGAGATTAACGGCCCCTTTCC 3368 AGAAGACCTTTGCAATTCCCGACTCA 3369 ACTTTCACGCTTTAACTGCCGCATTACTCACGACGACCACTGCATTCCCCACTGG 3364 ACAGGGGGTTTTGCCGAATTACTCCCACTCACACGACCTCCCCCCCC	_		
3333   TITTANATCTGCCGCCTTCCATG		3331	CGTGCCGCGAGTTCATGGTGCTA
3334   TCTGAAGCAATTTGGCCTCCTCAA		3332	AAGAGAAACCCTTTCCGGAGCTCA
5         3335         GATGCGCAAGAGGGTATTATGGGC           3336         GTGAAAATCTCGCAACTTCCTGGC           3337         ACGGGAAGCGGTGAATTTGTTGGTA           3338         GCCTACTATTGCTTTGGCAATGA           3339         GTAAATGGCAGGAAGCGGCTCTCG           10         3340         AGGTGCCAAATAGTGGACTGCGGT           3341         TCGGATGGTAGGAGCGAGCGCTAA           3342         GAGGTGAAGGAACAGCGACGCTAA           3343         ACCGTCGTTACCGCTCTGGTGTCG           3344         TTCCAATGTCCCAACATGCCC           3345         CGGCTTTATAGGTCCAACATGGCG           3346         CCGGCCTGGAAAGCAGAGTTATTG           3347         TTTATCGTTCAACGCTCACGTCCC           3348         AGACCCGCTGAAACGAAGTTGAT           3349         ATCCATCAGGAGAAAGCTGGCTCA           3351         GCTTGCAAATGCGAAAACTGGTCTC           3352         AGGCTCCAATGCTTTAGCACTAGG           3353         GTTGCCAAAGGACCCCCTTTGG           3354         GTCGTGTGCAGCCGCATATGGAGG           3355         TACCCCTGTTGCGGCAAAAGATGTCG           3354         GTCGTGTGAGCCGCAATAGGAGG           3355         TACCCCTGTTGCGGAATAGATGTCG           3356         TACGGTGTCGGGATCGAATTTGAG           3357         ATCGGTGTCGGGGATCGAATTTGAG		3333	TTTTAAATCTGCCGCCCTTCCATG
3336   GTGAAAATCTCGCAACTTCCTGGC		3334	TCTGAAGCAATTTGGCCTCCTCAA
3337   ACGGGAAGCGGTGAATTGTTGGTA	5	3335	GATGCGCAAGAGGGTATTATGGGC
3338   GCCCTACTATTGCCTTGGCAATGA	<u> </u>	3336	GTGAAAATCTCGCAACTTCCTGGC
3339   GTAAATGGCAGGAAGCGGCTCTCG	[	3337	ACGGGAAGCGGTGAATTGTTGGTA
10   3340   AGGTGCCAAATAGTGGACTGCGGT   3341   TCGGATGGTAGGAGGCGAGATCGG   3342   GAGGTGAAGGAACAGCGACGCTAA   3343   ACCGTCGTTACCGCTCTGGTGTCG   3344   TTCCAATGTCCGACATGCTATGCC   3345   CGGCTTTATAGGTCCAACATGCG   3346   CCGGCCTGAAACGCAGAGGTTATTG   3347   TTTATCGTTCAACGTCCACGTCCC   3348   AGACCCGCTGAACGGAGGTTATTG   3349   ATCCATCAGGAGAGAGAGTTATTG   3349   ATCCATCAGGAGAAGCTGGCTCA   3351   GCTTGGCAGAAGCAGAGTTCCC   3351   GCTTGGCAGAAGCCGTACACTAGG   3352   AGGCTCCAATGCTTAGCCGCAAA   3353   GATACTAGGAGCGAGCCCCTTTGG   3354   GTCGTGTGCAGCCGCATATGGAGG   3355   TACCCCTGTTGCAGCAGCGCTTTGG   3356   TACGCTCTGTGCGGATAGATGTCG   3357   ATCGTGTCGGGGATCGAATTTGAG   3358   ATCTCTCGTGCGGTACGAATTTGAG   3359   AGAAGCCACATGTTAGTGCGGAAG   3359   AGAAGCCACATGTTAGTGCGGGAG   3361   CGCTCACAACGAGCTTACTCATGG   3362   TCTACGCTTACGATCCGTTGCATCA   3363   TTTAACACCGAAATGGGAGCGTCC   3364   ACAGGGCGTATAGGAGGACTCC   3365   GTCGACCGTGTTTGTGCGGGATAT   3366   AGAAGACCTTGGCAATCCGATCC   3367   TTGGGTGCTTTTGCAGATCA   3368   AGAAGCCTTGTTTGACGATCA   3367   TTGGGTGCTTAAAATGCGGTCA   3368   AGAAGACCTTGGCAATCCGAGTCA   3369   ACTTTCAGCTACAATGCAGCACACACACACACACACACAC		3338	GCCCTACTATTGCCTTGGCAATGA
3341   TCGGATGGTAGGAGGCGAGATCGG		3339	GTAAATGGCAGGAAGCGGCTCTCG
3342   GAGGTGAAGGAACAGCGACGCTAA   3343   ACCGTCGTTACCGCTCTGGTGTCG   3344   TTCCAATGTCCGACATGCTATGCC   3345   CGGCTTTATAGGTCCAACATGGCG   3346   CCGGCCTGGAAAGCAGAGTTATTG   3347   TTTATCGTTCAACGCTCACGTCCC   3348   AGACCCGCTGAAAGCAGAGCTTGGAT   3349   ATCCAATGGCGAACGTACGTCCC   3350   TTGCCAATGCGTAAATCGGTTCTC   3351   GCTTGGCAGAAGGCGTACACTAGG   3352   AGGCTCCAATGCGTAAATCGGTTCTC   3353   GATACTAGGAGCGAGCCCCTTTGG   3354   GTCGTGTGCAGAGGCGTACACTAGG   3355   TACCCCTGTTGCGGATAGATGCG   3356   TAGGGTAACAGAATGAGGGGCCCTTTGG   3357   ATCGTGTCGGGGATCGAATTTGAG_   3358   ATCTCTCGTGCGGTCTTGCAGAAG   3359   AGAAGCCACATGTTAGTCGGGAG   3360   ATCTGCGTTAACTGTCCCGACTGG   3361   CGCTCACAACGAGCTTACTCATGG   3362   TCTACCGTACGATCGATCCATCA   3363   TTTACACCGAATGGGAGCGTCC   3364   ACAGGGCGTATGGAGCGTCC   3365   GTCGACCGTTTTGTGGGGGATAT   3366   AGAAGACCTTGGCAATCCGATCA   3367   TTGGGTGCTTAAATGCGGGTCTGA   3367   TTGGGTGCTTAAATGCGGTCCA   3367   TTGGGTGCTTAAAATGCGGTCTGA   3368   AGCGAAGTCGTATTGACGTCCA   3369   ACTTTCAGCTCCCAGTAGCACCA   3369   ACTTTCAGCTCCCAGTAGCACCA   3370   GCGCATGGTGAGCCCCTATTGCCG   3371   GGGTCGTGTCAGAGGACAAACACCC	10	3340	AGGTGCCAAATAGTGGACTGCGGT
3343   ACCGTCGTTACCGCTCTGGTGTCG		3341	TCGGATGGTAGGAGGCGAGATCGG
3344   TTCCAATGTCCGACATGCTATGCC		3342	GAGGTGAAGGAACAGCGACGCTAA
15		3343	ACCGTCGTTACCGCTCTGGTGTCG
3346 CCGGCCTGGAAAGCAGATTATTG  3347 TTTATCGTTCAACGCTCACGTCCC  3348 AGACCCGCTGAACGGAGCTTGGAT  3349 ATCCATCAGGAGAAAGCTGGCTCA  3350 TTGCCAATGCGTAAATCGGTTCTC  3351 GCTTGGCAGAAGGCGTACACTAGG  3352 AGGCTCCAATGCTTTAGCCGCAAA  3353 GATACTAGGAGCGAGCCCCTTTGG  3354 GTCGTGTGCAGCAGAAGGCGATATGGAGG  3355 TACCCCTGTTGCGGATAGATGTCG  3356 TAGGGTAACAGAATGAGGGGCGCT  3357 ATCGTGTCGGGGATCGAATTTAGC  3358 ATCTCTCGTGCGGATCGAATTTAGG  3359 AGAAGCCACATGTTAGTGCGGAGG  3360 ATCTGCGTTAACTGTCCCGACTGG  3361 CGCTCACAACGAGCTTACTCATGG  3362 TCTACGCTACGATCCGTTGCATCA  3363 TTTAACACCGAAATGGGAGCGTCC  3364 ACAGGGCGTAGTAGGCCGCTTTCC  3365 GTCGACCGTGTTTGTGGGGGATAT  3366 AGAAGACCTTGGCAATCCGAGTCA  3367 TTGGGTGCTTAAAATGCGGTCTGA  3368 AGCGAAGTCGTATTGACGTGCGGT  3369 ACTTTCAGCTCCCAGTAGCACGCA  40 3370 GCGCATGGTGAGTCCGTATTGCCG  3371 GGGTCGTGCAGAGGACAAACACC		3344	TTCCAATGTCCGACATGCTATGCC
3347	15	3345	CGGCTTTATAGGTCCAACATGGCG
3348   AGACCCGCTGAACGGAGCTTGGAT	[	3346	CCGGCCTGGAAAGCAGAGTTATTG
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3353   GATACTAGGAGCGAGCCCCTTTGG		3351	GCTTGGCAGAAGGCGTACACTAGG
3354   GTCGTGTGCAGCCGCATATGGAGG		3352	AGGCTCCAATGCTTTAGCCGCAAA
3355   TACCCCTGTTGCGGATAGATGTCG		3353	GATACTAGGAGCGAGCCCCTTTGG
3356   TAGGGTAACAGAATGAGGGGCGCT		3354	GTCGTGTGCAGCCGCATATGGAGG
3357   ATCGTGTCGGGGATCGAATTTGAG     3358   ATCTCTCGTGCGGTCTTGCAGAAG     3359   AGAAGCCACATGTTAGTGCGGAG     3360   ATCTGCGTTAACTGTCCCGACTGG     3361   CGCTCACAACGAGCTTACTCATGG     3362   TCTACGCTACGATCCGTTGCATCA     3363   TTTAACACCGAAATGGGAGCGTCC     3364   ACAGGGCGTAGTAGGCCGCTTTCC     3365   GTCGACCGTGTTTGTGGGGGATAT     3366   AGAAGACCTTGGCAATCCGAGTCA     3367   TTGGGTGCTTAAAATGCGGTCTGA     3368   AGCGAAGTCGTATTGACGTGCGGT     3369   ACTTTCAGCTCCCAGTAGCACGCA     40   3370   GCGCATGGTGAGTCCGTATTGCCG     3371   GGGTCGTGTCAGAGGACAAACACC	25	3355	TACCCCTGTTGCGGATAGATGTCG
3358   ATCTCTCGTGCGGTCTTGCAGAAG		3356	TAGGGTAACAGAATGAGGGGCGCT
3359   AGAAGCCACATGTTAGTGCGGGAG     3360   ATCTGCGTTAACTGTCCCGACTGG     3361   CGCTCACAACGAGCTTACTCATGG     3362   TCTACGCTACGATCCGTTGCATCA     3363   TTTAACACCGAAATGGGAGCGTCC     3364   ACAGGGCGTAGTAGGCCGCTTTCC     3365   GTCGACCGTGTTTGTGGGGGGATAT     3366   AGAAGACCTTGGCAATCCGAGTCA     3367   TTGGGTGCTTAAAATGCGGTCTGA     3368   AGCGAAGTCGTATTGACGTGCGGT     3369   ACTTTCAGCTCCCAGTAGCACGCA     40   3370   GCGCATGGTGAGTCCGTATTGCCG     3371   GGGTCGTGTCAGAGGACAAACACC		3357	ATCGTGTCGGGGATCGAATTTGAG
3360   ATCTGCGTTAACTGTCCCGACTGG     3361   CGCTCACAACGAGCTTACTCATGG     3362   TCTACGCTACGATCCGTTGCATCA     3363   TTTAACACCGAAATGGGAGCGTCC     3364   ACAGGGCGTAGTAGGCCGCTTTCC     3365   GTCGACCGTGTTTGTGGGGGATAT     3366   AGAAGACCTTGGCAATCCGAGTCA     3367   TTGGGTGCTTAAAATGCGGTCTGA     3368   AGCGAAGTCGTATTGACGTGCGGT     3369   ACTTTCAGCTCCCAGTAGCACGCA     40   3370   GCGCATGGTGAGTCCGTATTGCCG     3371   GGGTCGTGTCAGAGGACAAACACC		3358	ATCTCTCGTGCGGTCTTGCAGAAG
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3362 TCTACGCTACGATCCGTTGCATCA  3363 TTTAACACCGAAATGGGAGCGTCC  3364 ACAGGGCGTAGTAGGCCGCTTTCC  3365 GTCGACCGTGTTTGTGGGGGATAT  3366 AGAAGACCTTGGCAATCCGAGTCA  3367 TTGGGTGCTTAAAATGCGGTCTGA  3368 AGCGAAGTCGTATTGACGTGCGGT  3369 ACTTTCAGCTCCCAGTAGCACGCA  40 3370 GCGCATGGTGAGTCCGTATTGCCG  3371 GGGTCGTGTCAGAGGACAAACACC	30	3360	ATCTGCGTTAACTGTCCCGACTGG
3363 TTTAACACCGAAATGGGAGCGTCC 3364 ACAGGGCGTAGTAGGCCGCTTTCC 3365 GTCGACCGTGTTTGTGGGGGGATAT 3366 AGAAGACCTTGGCAATCCGAGTCA 3367 TTGGGTGCTTAAAATGCGGTCTGA 3368 AGCGAAGTCGTATTGACGTGCGGT 3369 ACTTTCAGCTCCCAGTAGCACGCA 40 3370 GCGCATGGTGAGTCCGTATTGCCG 3371 GGGTCGTGTCAGAGGACAAACACC		3361	CGCTCACAACGAGCTTACTCATGG
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3366 AGAAGACCTTGGCAATCCGAGTCA 3367 TTGGGTGCTTAAAATGCGGTCTGA 3368 AGCGAAGTCGTATTGACGTGCGGT 3369 ACTTTCAGCTCCCAGTAGCACGCA 40 3370 GCGCATGGTGAGTCCGTATTGCCG 3371 GGGTCGTGTCAGAGGACAAACACC		3364	ACAGGGCGTAGTAGGCCGCTTTCC
3367 TTGGGTGCTTAAAATGCGGTCTGA 3368 AGCGAAGTCGTATTGACGTGCGGT 3369 ACTTTCAGCTCCCAGTAGCACGCA 40 3370 GCGCATGGTGAGTCCGTATTGCCG 3371 GGGTCGTGTCAGAGGACAAACACC	35	3365	GTCGACCGTGTTTGTGGGGGATAT
3368 AGCGAAGTCGTATTGACGTGCGGT 3369 ACTTTCAGCTCCCAGTAGCACGCA 40 3370 GCGCATGGTGAGTCCGTATTGCCG 3371 GGGTCGTGTCAGAGGACAAACACC		3366	AGAAGACCTTGGCAATCCGAGTCA
3369 ACTTTCAGCTCCCAGTAGCACGCA 40 3370 GCGCATGGTGAGTCCGTATTGCCG 3371 GGGTCGTGTCAGAGGACAAACACC		3367	TTGGGTGCTTAAAATGCGGTCTGA
40 3370 GCGCATGGTGAGTCCGTATTGCCG 3371 GGGTCGTGTCAGAGGACAACACC		3368	AGCGAAGTCGTATTGACGTGCGGT
3371 GGGTCGTGTCAGAGGACAACACC		3369	ACTTTCAGCTCCCAGTAGCACGCA
	40	3370	GCGCATGGTGAGTCCGTATTGCCG
3372 ACAAGAGGACCTCCGGGTGAAAAT		3371	GGGTCGTGTCAGAGGACAAACACC
		3372	ACAAGAGGACCTCCGGGTGAAAAT

	3373	TAGCGGGGACCTATCCGCCTCAGT
	3374	GCTCTATGCCATGTCCGTGGATTC
	3375	AGCTCATAATGCGCGTTGACCCCG
	3376	ACAGTGGAAACGTTTCATGCCGAG
5	3377	GGTTTCGACGAAAAGGATGGTCGT
	3378	GCGGTACGTATTCTAACCCGACGG
	3379	GGTATTCGCCATGCTTGGTCTCTG
	3380	GAGCCTCTCCGATTCTGGCCCAGA
	3381	TGGAACGTAATACGAACGCCGAAC
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	3384	AGCGATCTTGGACGCCGGCACGAT
	3385	GACCAGGTTGGTACAACGCCTTGG
	3386	GATGTGCTACAGGACCGCCTACGC
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	3390	GCGTTTGCTAATGGTTGCGATTGC
	3391	CCCTTGCCCTCAATCTGTATTGCA
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	3393	GAAGTTCCCGGCCCGAGTAACATA
,	3394	GGGAGCCACGACAGAGCTCCTAGG
	3395	CTGACTCTTACGAAGCGCACTCGC
	3396	AGGTATAGCGGGGCGTCTAGCAAA
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	3399	CGTGCCCTAGCATACAACGTTGGG.
	3400	GGGAATGCGGCAGTCTGTCTACCT
	3401	GTTGAAATACTGGCCCCGCGGGAC
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	3403	CAACAGCCCGCTCCTTGGATATAA
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	3405	CGGGTTGTAACGCTGTTGGACGAA
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	3408	TCAATACCACCCAGAAACTGGGCG
	3409	GGCAGTTGACACTCATCGACCATC
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	3418	CCTCATAGCTACGGGTGGACGACG
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	3422	TGCACATGCAACTAATAGGTGCGC
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	3442	CGGTGAGCGAAGATCATCCCCTTA
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	3463	GGTGTCGAAGCCACGATGTATCCC
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	3468	GATGTGACCCATCCATTCCTGGGA
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	3472	CCGGTATAGAGGAAACCCGGACGT
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	3474	TGAAACTCGTCACGCTCCTTGCAG
	3475	TGTTGCGTAACCACCAACCCTCCT
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	3477	CGCAAGTGGGAGCCCAAGAGTTTG
	3478	TGCAGGGTAACGAGGGTAAGTGGG
	3479	GAACTGTAGGGTCTCGCCGGTCAA
	3480	CGAGATGTCCAGCAGCGGTTGTTA
25	3481	TTGTGGTTGCTCCGGGTAAAAGGA
	3482	TCTACGCATCCCTGGGTAATTTGC
• •	3483	AGAAGCTGCGAGTCACCGTGACTC
	3484	GGGCGGTGTTGAAGGGCTCTATAC
	3485	TTCCACAACGGGTGAGTAGGACGG
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	3487	CCCGCCGAGTTGGTTGGCTAAACA
* #	3488	GCTAGGGTGGTCCTTTCAGTGGGT
	3489	CGTGACTCTCTTTTTCGGCAG
	3490	ACTGCCCATGGGCCACTAGGCTTG
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	3492	ACTTGTGGTCGACAACGATGTGGC
	3493	CCACCACCCCTGACCCGAAAAAAT
	3494	TGTTGTGCATCACAACATCAGGCC
	3495	GACCACCCGGTAAAGAGGGATGGT
40	3496	GCCACCCTGAAGCACTCGTTATG
	3497	GCTACCAGTTGGAAGACGGGTTGC
	3498	CAACGTTCGCATCCCACAGTTGTA
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3499   TATCGGGTCATATGGGCAAAGAG   3500   TCGGTGTGATTGATGATAACGCC   3501   AGAGGTCGAGAGCCCGATAACCTG   3502   GTAGTTAGCGCGCGCCCTGGCTCA   3502   GTAGTTAGCGCCGGACCA   3504   GATGGTTCGCCCTTGTGTCGCAGC   3505   GCGCAGTTACGTCCATTGTCCCAC   3505   GCGCAGTTACGTCCATTGTCCCAC   3506   CCGCCTGATTTAACAAGCCAAGGT   3507   GACCAAGTGCAGTCAGTCTGG   3508   CAAAAAAGCAATTCGCCCTGGACG   3509   ACTGACCTTCTGCCTCCGTG   3510   CTCGCCGTGTATCGCTACCCTT   3511   CGGCATTTTCGCTCTCCGTG   3512   ACGTAACGCTTAGTCTGTTGTTG   3512   ACGTAACGCTGAGTGTGTGTG   3514   GCGCATTCTTGGGTAACCCC   3515   TCCCTGCCATCTTGAGTTAGG   3516   TCCCTGCCATCTTGAGTTAGG   3517   GCAGCGTCAACACACA   3518   AGCGTACATAGCGGAGTGCA   3519   TGCCTCGCGATCACCGAGG   3519   TGCCTCGCGATCACCACGATTT   3521   CGTTAGTAACGATCGTCGAT   3521   CGTTAGTAACGATCGTCGGCAA   3521   CGTTAGTAACGATCGTCGGCAA   3522   AATCGCAGATGATCGACCACA   3522   AATCGCAGATGATCGGGCAAA   3522   AATCGCAGATGGTTCGTGGAACACACA   3523   TAAAGCGTCTACAGGAACCGCAG   3524   TGGCTAACAACAACACACA   3526   ACGTGAGATCCATCAGGGAACCGAG   3527   TAAAGCGTCTACAGGCCAGCGTTG   3528   CCTATGCAGCCACTGGTGTCCTTC   3528   ACGTGAGATCCATCAGGGAACCGAG   3529   ATGATCCATGGGAAACCACGAGG   3529   ATGATCCATGGGAAACCACGAGG   3529   ATGATCCATGGGAAACCACGAGG   3529   ATGATCCATGGGAAACCACAGGGGG   3520   ACGTATGCCACAGAATTGGACG   3520   ACGTATGCCACAGAATTGGACGCCATCGTTCACAGGGAACGGG   3520   ATGATCCATGGGAAACCACAGAGGGG   3520   ATGATCCATGGAAACCACTGGGTACCACAGGGTAGG   3520   ATGATCCATGGGAAAACCACAGAGTGGT   3531   CCACCAAATCGCATAAGCTCCACC   3532   TTCAATTTAATCCCGTGATCGGG   3532   TTCAATTTAATCCCGTGATCGGG   3533   AAAGGACTACGCCCATCGCTCACA   3534   CGGGAAAAAACCACAGAGTGGGT   3536   GCAGGGGTCCTTTTCCACGGGAACTTG   3536   GCAGGGGTCCTTTTCCACGGGAACTTG   3537   TCAAATTAGGGCCTAAACCTTG   3539   AGAATGATTAACCGCCAAACCTTG   3539   AGAATGATTAACCGCCAACCTTG   3539   AGAATGATTAACCGCCAACCTTG   3539   AGAATGATTAACCGCAAACCTCGCCACC   3539   AGAATGATTAACCGCAAACCTCGGCCACC   3539   AGAATGATTAACCGCCAACCCACC   3539   AGAATGATTAACCGCCAACCCTGCCTAGCCCACC   3539   AGAATGATTAACCGCCAACCCCACC   3540   AGAATGATTAACCG	r		
3501   AGAGGTCGAGAGCCCGATAACCTG   3502   GTAGTTAGGCGCGGCCCTGGCTCA   3503   TGATTCTCGATGTCACGCGAACA   3504   GATGGTTCACCGCTGTTGTCGCAGC   3505   GCGCAGTTACGTCCATTGTCCCAC   3506   CCGCCTGATTTAACAAGCCAAGGT   3507   GACCAAGTGCAGGCGTCAGTCTGG   3507   GACCAAGTGCAGGCGTCAGTCTGG   3508   CAAAAAAGCAATTCGCCCTGGACG   3509   ACTGACCTTCTCGGTGTCTCCGTG   3510   CTCGCCGTGTATCGCTACCCTT   3511   CGGCATTTTTCACATGCTGTGTTG   3512   ACGTAACGCTGATGGGGAACACAC   3514   GCGCATTCTCGGGTATCGTGTTG   3515   TCCCTGCCCATCTCTGAGTTAGG   3516   TGCAGCGCTGATGGGAAACCAC   3517   GCAGCGTCACACATCTGAGTTAGG   3517   GCAGCGTCACAGAAACCGCAGC   3518   AGCGTACCATCGATGGGGATCAC   3519   TGGCCTGCCATCTCTGAGTTAGG   3520   TTGGTAATCACTCGGCCAGCCTA   3521   CGTTAGTAACGATCGTCGGTGCAA   3522   AATCGCAGATGTTCTGGGAACA   3522   AATCGCAGATGTTCTGGGCACAA   3522   AATCGCAGATGTTCTGGGCACAA   3524   TGGCTAACATAGCGGGATCCC   3527   TAAACGCTAACACAGGGTGCTCT   3527   TAAACGCAAAACCACAGAGGG   3528   CCTATGAACACAGAGGGTGCTCT   3527   TAAACGCAAAACCACAGAGGG   3528   CCTATGAACACACAGAGGGGCTT   3529   ATGATCCAGGCATTAGTCGCCT   3529   ATGATCCAGGCATTAGTCGCCT   3521   CCACCAAATCCAACAGGGTGGCTCT   3522   ATGATCCAGGCATTAGTCGCCT   3523   ACGGTATGCAACAGAGGGGGGCT   3524   TGGCTAACCACAGAGGGGGCCCTT   3526   ACGTGAAGATCCACAGAGGGGGCCCTT   3527   TAAACGCCAAAACCACAGAGCAGG   3528   CCATGGAATGGAAAACCACAGAGCAGG   3528   CCATGGAATGGAAAACCACAGAGCAGG   3528   ATGATCCATGGGCTTAGTCGCCT   3527   TAAACGCCAAAAACCACAGAGCGGT   3528   ATGATCCATGGGCTTAATCGCCTT   3520   ACGGTATGCCTCAACAAGCTGACCCC   3532   ATGATCCCTGGGCTTAATCCCCC   3532   ATGATCCCTGGGCTTAAGCTTTCGCCTT   3530   ACGGTATGCCTCAACAAGCTCCACC   3532   TTTCAGTTTAATCCCGTGATTCGGG   3534   CGGGAAGAAAGCATTAGCCTCACC   3532   TTTCAGTTTATTCCATCGGG   3534   CGGGAAGAAAGCCTAAAGCTTTGGCCTT   3536   CAAATTAGGGCCAAACCCACAACTTTTG   3536   GCAGGGGGGTCCTTTTTCCACCGTAATTTGCATCGGG   3538   ACAAATTATAGCGCCAACCCCCC   3532   ATGAAGTTCCATCCTGTCCAGGCCCAACCCTGGTCCACC   3533   AAAGGACTTTCCATCCTGTCCAGGCCCAACCCCCCCCCC		3499	TATCGGGTCGTAATGGGCAAAGAG
3502   GTAGTTAGGCGCGGCCTCA		3500	TCGGTGTGATTGATGGATAACGCC
5         3503         TGATTCTCGATGTCACGCCGAACA           3504         GATGGTTCGCCCTTGTCTCGCAGC           3505         GCGCAGTTTACGTCCATTTTCCCAC           3506         CCGCCTGATTTAACAAGCCAAGGT           3507         GACCAAGTGCAGGCGTCAGTCTGG           3508         CAAAAAAGCAATTCGCCCTGGACG           3509         ACTGACCTTCTCGCTGTCTCCGTG           3510         CTCGCCGTGTATCGCTAACCCTCT           3511         CGGCATTTTCACATGCTGTTTG           3512         ACGTAACGCTGATGGGGTACACC           3513         CCCTGTGACCGTGGGGACACACA           3514         GCGCATACTCTGGGTAGTCGGCAC           3515         TCCCCTGCCATCTCTGAGTTAGG           3516         TGCAGCGTCACAGGAAACCGCACC           3517         GCAGCGTCACAGGAAACCGCACC           3518         AGCGTACACTCGATGGGGATTCGA           3519         TGGCCTCGCGATCACCACGATGTT           3520         TTGGTAATCACTCGGCCAGCGCTA           3521         CGTTAGTAACGATCGTCGGTGCACA           3522         AATCGCAGATGGTTCGTGGCACA           3523         TAAAGCCACTGGTTGGCACAA           3524         TGGCTAACACAACTGGGGACCACTGGT           3525         CCTATGCAGCACTGGTGCTCTT           3526         ACCTATGCACCAACTGGTGCCCTT           3527         <		3501	AGAGGTCGAGAGCCCGATAACCTG
3504   GATGGTTCGCCCTTGTGTCCAGC   3505   GCGCAGTTACGTCCATTGTCCCAC   3506   CCGCCTGATTTACAAGCCAAGGT   3507   GACCAAGTGCAGGCGTCAGTCTGG   3508   CAAAAAGCAATTCGCCCTGGACG   3509   ACTGACCTTCTCGCCTGGACG   3510   CTGGCCGTGTATCGCTCTCCGTG   3511   CGGCATTTTCACATGCTGTTG   3511   CGGCATTTTCACATGCTGTTG   3512   ACGTAACGCCTGATGGGGTACACC   3514   GCGCATACTCTGGGTACCGTGACG   3515   TCCCCTGCCATCTGAGTTAGG   3516   TGCAGCGTGAACACACA   3517   GCAGCGTCAACATAGCGGGTGCA   3518   AGCGTACCATCGAGGAACACGC   3518   AGCGTACCATCGAGGAACCGCAGC   3519   TGGCCTCACAGGAAACCGCAGC   3520   TTGGTAATCACTCGGCCAGCGCTA   3521   CGTTAGTAACCATCGTCGCAA   3521   CGTTAGTAACCATCGTGGCAA   3522   AATCGCAGATGTTCGGCAA   3523   TAAAGCGTCTAGAGGAACCGCAGC   3524   TGGCTAACAACGAAACTGGGAATCGG   3524   TGGCTAACAAACCAGAACTGGGAACCGCAGC   3526   ACGTGAGATCCAAGGGTGCTCT   3526   ACGTGAGATCCAAGGGTGCTCT   3527   TAAACGCTCAACAGAACCTGAGCG   3529   ATGATCCATGGGGTAACCACAGAGCG   3529   ATGATCCATGGGCTAACCACAGAGCGGCT   3520   ATGATCCATGGGCTAACCACAGAGCTGGCT   3521   CCACCAAAACCACAACACAGAACCGGG   3529   ATGATCCCTGGGCTTAGTCGCCT   3521   CCACCAAATCCAACAGAGTGGCT   3521   CCACCAAATCCAACAGAGTGGCT   3521   CCACCAAATCCAACAGAGTGGCT   3521   CCACCAAATCCAACAGAGTGGCT   3521   CCACCAAATCCAACAGAGTGGCT   3521   CCACCAAATCCAACAGAGTGGCT   3522   TTTTTGGACCTAACAGAGTTGCCCT   3523   ATGATCCTCAACAGAGTTGCCT   3524   TGGCTAACAGACATTGCGCC   3525   TTTTTTGACATTTTTTCTCATCGGG   3534   CGGCAAAACCACACACACACACACACACACACACACACA		3502	GTAGTTAGGCGCGGCCCTGGCTCA
3505   GCGCAGTTACGTCCATTGTCCCAC   3506   CCGCCTGATTTACAAAGCCAAGGT   3507   GACCAAGTGCAGGCGTCAGTCTGG   3508   CAAAAAAGCAATTCGCCCTGGACG   3508   ACTGACCTTCTCGCTCTCCGTG   3510   CTCGCCGTGTATCGCTTACCCTT   3511   CGGCATTTTCACATGCTGTGTTG   3511   CGGCATTTTCACATGCTGTGTTG   3512   ACGTAACGCCTGATGGGGTACACC   3514   GCGCATACTCTGGGTAGTCGCCAC   3515   TCCCCTGCCATCTGGGAGACACACA   3514   GCGCATACTCTGGGTAGTCGGCAC   3516   TGCAGCGTAACATAGCGGGTGCA   3517   GCAGCGTCACAGTAGCGGGTGCA   3518   AGCGTACCATCGATGGGGATCGA   3519   TGCCCTCCCATCTCTGAGTTAGG   3519   TGGCCTCACAGAAACCGCAGC   3521   CGTTAGTAACCATCAGTGGGATTCGA   3521   CGTTAGTAACCATCGTCGGTGCAA   3521   AAAGCGTCTAGAGTGTCGGAA   3522   AATCGCAGATGTTGGGAATCGG   3523   TAAAGCGTCTAGAGGCCGCTTG   3524   TGGCTAACAGAACTGGGAATCGG   3525   CCTATGCAGCACACTGGTGCTCT   3526   ACGTGAGATCCAAGGGTGCCTT   3526   ACGTGAGATCCAAGAGCATGGG   3529   ATGATCCCTGGGCTAACCAGAGAGG   3529   ATGATCCCTGGGCTAACCAGAGGGG   3529   ATGATCCCTGGGCTAACAGAGCTTGCGCT   3531   CCACCAAATCCCACAGAGTGGCT   3531   CCACCAAATCCCACAGAGTGGCT   3531   CCACCAAATCCCACAGAGTGGCT   3531   CCACCAAATCCCATCAGCTCCCC   3532   TCTCAGTTTAATCCCGTGATCGGG   3534   CGGGAAGACAGCCACAGAGTGGCT   3531   CCACCAAATCGCCTAACAGGTTGCT   3531   CCACCAAATCGCCATAAGCTCCACC   3532   TCTCAGTTTAATCCCGTGATCGGG   3534   CGGGAAAACGCCATAAGCTCCACC   3532   TCTCAGTTTAATCCCGTGATCGGG   3536   GCAGGGGTCCTTTTCCACCGGTAAT   3536   GCAGGGGTCCTTTTCCACGGTAAT   3537   TCAAATTAGGCCAAACGCAACCTAGCTTGGTGCCCC   3538   ATGAAGTTCCATCCTGTCCGGCC   3539   AGAATGATTAAGCCCAAACGCAACCACCCCCCCCCCCCC	5	3503	TGATTCTCGATGTCACGCCGAACA
3506   CCGCCTGATTTAACAAGCCAAGGT   3507   GACCAAGTGCAGGCGTCAGTCTGG   3508   CAAAAAAGCAATTCGCCCTGGACG   3509   ACTGACCTTCTCGCTCTCTCCGTG   3510   CTCGCCGTGTATCGCTACCCTCT   3511   CGGCATTTTCACATGCTGTTG   3512   ACGTAACGCTGATGGGGTACACC   3514   GCGCATACTCTGGGTAGCACACA   3515   TCCCTGCCATCTTGGGTAGCACACA   3516   TGCAGCGTGAGAGCACACA   3517   GCAGCGTAACATAGCGGGTGCA   3518   AGCGTACCATCGAGGAAACCGCAGC   3519   TGGCCTCACAGGAAACCGCAGC   3519   TGGCTCCACAGGAAACCGCAGC   3520   TTGGTAACACTCGGCCAGCGATT   3520   TTGGTAATCACTCGGCCAGCGCTA   3521   CGTTAGTAACGATCGTCGGTGCAA   3521   CGTTAGTAACGATCGTCGGTGCAA   3522   AATCGCAGATGGTTCGTGGAACACA   3524   TGGCTAACGAACGTGTGG   3524   TGGCTAACAGAACTGGGAATCGG   3525   CCTATGCAGCACACGATGGTCCT   3526   ACGTGAGATCACAGAGCTGTCCT   3527   TAAACGCCAACAGAGCTGGCTCT   3528   CCATGGAATCGAACGAACTTGGACG   3528   CCATGGAATCGAACGAACTTGGACG   3529   ATGATCCCTGGGCTTAGTCGCCT   3530   ACCGTATGCCTCAACAGAGTGGCT   3531   CCACCAAATCGCATAGCGCCCTT   3530   ACCGTATGCCTCAACAGAGTGGCT   3531   CCACCAAATCGCATAAGCTCCACC   3522   TCTCAGTTTAATCCCGTGATCGG   3531   CCACCAAATCGCATAAGCTCCACC   3532   TCTCAGTTTAATCCCGTGATCGG   3534   CCGCAAATCGCATAAGCTCCACC   3535   TTTTGGACATTTTTCTGCATCGGG   3536   GCAGGGGTCCTTTTCCACGGTAAT   3537   TCAAATAGGCCTAAGGCTTAAT   3537   TCAAATAGGCCTAAGCCTTAAT   3537   TCAAATAGGCCTAAGCCTTACCGGC   3538   ATGAAGTTCCATCCTGTCCGGCC   3539   AGAATGATTAAGCGCAAACCCACGCCC   3539   AGAATGATTAAGCGCAAACCCACCACCCCC   3539   AGAATGATTAAGCGCAAACCCACCACCCCCC   3539   AGAATGATTAAGCGCAAACCCACCACCCCCC   3539   AGAATGATTAAGCGCAAACCCACCACCCCCCCCCCCCCC		3504	GATGGTTCGCCCTTGTGTCGCAGC
3507   GACCAAGTGCAGGCGTCAGTCTGG		3505	GCGCAGTTACGTCCATTGTCCCAC
10   3508		3506	CCGCCTGATTTAACAAGCCAAGGT
3509   ACTGACCTTCTCGCTGTG		3507	GACCAAGTGCAGGCGTCAGTCTGG
3510   CTCGCCGTGTATCGCTAACCCTCT     3511   CGGCATTTTTCACATGCTGTTG     3512   ACGTAACGCCTGATGGGGTACACC     3513   CCCTGTGACCGTGGGAGACACACA     3514   GCGCATACTCTGGGTAGTCGGCAC     3515   TCCCCTGCCCATCTCTGAGTTAGG     3516   TGCAGCGCTAACATAGCGGGTGCA     3517   GCAGCGTCACAGGAAACCGCAGC     3518   AGCGTACCATCGATGGGGATCCA     3519   TGGCCTCGCGATCACCAGGATTCGA     3519   TGGCCTCGCGATCACCACGATGTT     3520   TTGGTAATCACTCGGCCAGCCTA     3521   CGTTAGTAACGATCGTCGGTGCAA     3522   AATCGCAGATGGTTCGTGGCACAA     3523   TAAAGCGTCTAGAGGCCGGCTG     3524   TGGCTAACCAACTGGGAATCGG     3525   CCTATGCAGCCACTGGTGCCTT     3526   ACGTGAGATCCAAGGGTGGCTCCT     3527   TAAACGCCAAAAACCACGAGCAGG     3528   CCATGGAATCGAAGCATTGGACG     3529   ATGATCCCTGGGCTTAGTCGCCTT     3530   ACCGTATGCCTCAACAGAGTGGCT     3531   CCACCAAATCGCATAAGCTCCACC     3532   TCTCAGTTTAATCCCGTGATCGGG     3533   AAAGGACTACGCCCATCACACA     3534   CGGGAAGAAAGCCCTAAAGCTTTG     3535   TTTTGGACATTTTTCTGCATCGG     3536   GCAGGGGTCCTTTTCCACGGTAAT     3537   TCAAATAGGGCCAAACGCAGC     3539   AGAATGATTAAGCGCAAACCCAGC     3539   AGAATGATTAAGCGCCAACCCAGC     3539   AGAATGATTAAGCGCCAACCCAGC     3539   AGAATGATTAAGCGCCAACCCAGC     3539   AGAATGATTAAGCGCCAACCCAGC	10	3508	CAAAAAAGCAATTCGCCCTGGACG
3511   CGGCATTTTTCACATGCTGTTG     3512   ACGTAACGCCTGATGGGTACACC     3513   CCCTGTGACCGTGGGAGACACACA     3514   GCGCATACTCTGGGTAGTCGGCAC     3515   TCCCCTGCCCATCTCTGAGTTAGG     3516   TGCAGCGCTAACATAGCGGGTGCA     3517   GCAGCGTCACAGGAAACCGCAGC     3518   AGCGTACCATCGATGGGGATCCAC     3519   TGGCCTCGCCATCACAGGAAACCGCAGC     3519   TGGCCTCGCGATCACCACGATGTT     3520   TTGGTAATCACTCGGCCAGCGCTA     3521   CGTTAGTAACGATCGTCGGTGCAA     3522   AATCGCAGATGGTTCCTGGCACAA     3523   TAAAGCGTCTAGAGGCCGCTGTG     3524   TGGCTAAACGAAACTGGGAATCGG     3525   CCTATGCAGCCACTGGTTCCTTC     3526   ACGTGAGATCCAAGGGTGCTCCT     3527   TAAACGCCAAAAACCACGAGCAGG     3528   CCATGGAATCGAAAGCATTGGACG     3529   ATCATCCTGGGCTTAGTCGCCTT     3530   ACCGTAGCCTCACACAGAGTGGCT     3531   CCACCAAATCGCAAAAGCCACCC     3532   TCTCAGTTTAATCCCGTGATCGGG     3533   AAAGGACTACGCCCATCACAC     3534   CGGGAAGAAAGCCCTAAAGCTTTG     3535   TTTTGGACTTTTTCACGGTAAT     3536   GCAGGGGTCCTTTTCCACGGTAAT     3537   TCAAATAGGGCCTAAAGCTTTG     3538   ATGAAGTTCCATCCTGTCCGGCC     3539   AGAATGATTAAGCGCCAACCCAGC     3539   AGAATGATTAAGCGCCAACACCAGCCC     3539   AGAATGATTAAGCGCCAACACCAGCCCC     3539   AGAATGATTAAGCGCCAACACCAGCCCC     3539   AGAATGATTAAGCGCCAAACCCAGCCCCCCCCCCCCCCC		3509	ACTGACCTTCTCGCTCTCCCGTG
3512   ACGTAACGCCTGATGGGGTACACC		3510	CTCGCCGTGTATCGCTAACCCTCT
15   3513   CCCTGTGACCGTGGGAGACACACA   3514   GCGCATACTCTGGGTAGTCGGCAC   3515   TCCCCTGCCATCTCTGAGTTAGG   3516   TGCAGCGCTAACATAGCGGGTGCA   3517   GCAGCGTCACAGGAAACCGCAGC   3518   AGCGTACCATCGATGGGGATTCGA   3519   TGGCCTCGCGATCACCACGATGTT   3520   TTGGTAATCACTCGGCCAGCCTA   3521   CGTTAGTAACGATCGTCGGTGCAA   3522   AATCGCAGATGGTTCGTGGCACAA   3522   AATCGCAGATGGTTCGTGGCACAA   3524   TGGCTAAACGAACTGGGAATCGG   3524   TGGCTAAACGAACTGGGAATCGG   3525   CCTATGCAGCACATGGTGCCTTC   3526   ACGTGAGATCCAAGGGTGGCTCCT   3527   TAAACGCCAAAAACCACGAGCAGG   3528   CCATGGAATGGAAAGCATTGGACG   3529   ATGATCCCTGGGCTTAGTCGCCTT   3530   ACCGTATGCCTCAACAGAGTGGCT   3531   CCACCAAATCGCATAAGCTCCACC   3532   TCTCAGTTTAATCCCGTGATCGGG   3534   CGGGAAGAAGGCCTAAAGCTTCGC   3534   CGGGAAGAAAGGCCTAAAGCTTTG   3536   GCAGGGGTCCTTTTCCACGGTAAT   3537   TCAAATAGGGCGTAAGCTTCG   3537   TCAAATAGGGCGTAAGCTTCCGCC   3538   ATGAAGTTCCATCCTGTCCGGGCC   3539   AGAATGATTAAGCGCAAACGCAGCCCCCCCCCCCCCCCC	(	3511	CGGCATTTTTCACATGCTGTGTTG
3514   GCGCATACTCTGGGTAGTCGGCAC   3515   TCCCCTGCCATCTCTGAGTTAGG   3516   TGCAGCGCTAACATAGCGGGTGCA   3517   GCAGCGTCCACAGGAAACCGCAGC   3518   AGCGTACCATCGATGGGGATTCGA   3519   TGGCCTCGCGATCACCACGATGTT   3520   TTGGTAATCACTCGGCCAGCGCTA   3521   CGTTAGTAACGATCGTCGGTGCAA   3522   AATCGCAGATGGTTCGTGGCACAA   3522   AATCGCAGATGGTTCGTGGCACAA   3524   TGGCTAAACGAACTGGGAATCGG   3524   TGGCTAAACGAACTGGGAATCGG   3525   CCTATGCAGCCACTGGTGTCCTTC   3526   ACGTGAGATCCAAGGGTGGCTCCT   3527   TAAACGCCAAAAACCACGAGCAGG   3529   ATGATCCCTGGGCTTAGTCGCCTT   3530   ACCGTATGCCTCAACAGAGTGGCT   3531   CCACCAAATCGCATAAGCTCCACC   3532   TCTCAGTTTAATCCCGTGATCGGG   3534   CGGGAAGAAAGGCCTAAAGCTTCG   3534   CGGGAAGAAAGGCCTAAAGCTTTG   3535   TTTTGGACATTTTTCTGCATCGGG   3536   GCAGGGGTCCTTTTCCACGGTAAT   3537   TCAAATAGGGCGTAAGCTTG   40 3538   ATGAAGTTCCATCCTGTCCGGGCC   3539   AGAATGATTAAGCGCAAACGCAGC   3539   AGATGATTAACCGCAAACGCAGC   3539   AGATGATTAACCATCATCATCTGTCCAACAACGCAGCATCAACGCAGCATCAACGCAACGCAACGCAACG		3512	ACGTAACGCCTGATGGGGTACACC
3515   TCCCCTGCCATCTCTGAGTTAGG	15	3513	CCCTGTGACCGTGGGAGACACACA
3516   TGCAGCGCTAACATAGCGGGTGCA		3514	GCGCATACTCTGGGTAGTCGGCAC
3517   GCAGCGTCCACAGGAAACCGCAGC   3518   AGCGTACCATCGATGGGGATTCGA   3519   TGGCCTCGCGATCACCACGATGTT   3520   TTGGTAATCACTCGGCCAGCGCTA   3521   CGTTAGTAACGATCGTCGGTGCAA   3522   AATCGCAGATGGTTCGTGGCACAA   3522   AATCGCAGATGGTTCGTGGCACAA   3524   TGGCTAAACGAAACTGGGAATCGG   3524   TGGCTAAACGAAACTGGGAATCGG   3525   CCTATGCAGCCACTGGTGTCCTTC   3526   ACGTGAGATCCAAGGGTGGCTCCT   3527   TAAACGCCAAAAACCACGAGCAGG   3529   ATGATCCCTGGGCTTAGTCGCCTT   3530   ACCGTATGCCTCAACAGAGTGGCT   3531   CCACCAAATCGCATAAGCTCCACC   3532   TCTCAGTTTAATCCCGTGATCGGG   3534   CGGGAAGAAAGGCCTAAAGCTCCACC   3535   TTTTGGACATTTTTCTGCATCGGG   3536   GCAGGGGTCCTTTTCCACGGTAAT   3537   TCAAATAGGGCGTAGGCAACCTTG   40   3538   ATGAAGTTCCATCCTGTCCGGCC   3539   AGAATGATTAAGCGCAAACGCAGC		3515	TCCCCTGCCCATCTCTGAGTTAGG
3518   AGCGTACCATCGATGGGGATTCGA     3519   TGGCCTCGCGATCACCACGATGTT     3520   TTGGTAATCACTCGGCCAGCGCTA     3521   CGTTAGTAACGATCGTCGGTGCAA     3522   AATCGCAGATGGTTCGTGGCACAA     3523   TAAAGCGTCTAGAGGCCGGCTGTG     3524   TGGCTAAACGAAACTGGGAATCGG     3525   CCTATGCAGCCACTGGTGTCCTTC     3526   ACGTGAGATCCAAGGGTGGCTCCT     3527   TAAACGCCAAAAACCACGAGCAGG     3528   CCATGGAATGGAAAGCATTGGACG     3529   ATGATCCCTGGGCTTAGTCGCCTT     3530   ACCGTATGCCTCAACAGAGTGGCT     3531   CCACCAAATCGCATAAGCTCCACC     3532   TCTCAGTTTAATCCCGTGATCGGG     3533   AAAGGACTACGCCCATCGCTCACA     3534   CGGGAAGAAAGCCTAAAGCTTTG     3535   TTTTGGACATTTTTCTGCATCGGG     3536   GCAGGGGTCCTTTTCCACGGTAAT     3537   TCAAATAGGGCGTAGCCAACCTTG     40   3538   ATGAAGTTCCATCCTGTCCGGGCC     3539   AGAATGATTAAGCGCAAACGCAGC		3516	TGCAGCGCTAACATAGCGGGTGCA
3519   TGGCCTCGCGATCACCACGATGTT		3517	GCAGCGTCCACAGGAAACCGCAGC
3520	20	3518	AGCGTACCATCGATGGGGATTCGA
3521   CGTTAGTAACGATCGTCGATGCAA   3522   AATCGCAGATGGTTCGTGGCACAA   3523   TAAAGCGTCTAGAGGCCGGCTGTG   3524   TGGCTAAACGAAACTGGGAATCGG   3525   CCTATGCAGCCACTGGTGTCCTTC   3526   ACGTGAGATCCAAGGGTGGCTCCT   3527   TAAACGCCAAAAACCACGAGCAGG   3528   CCATGGAATGGAAAGCATTGGACG   3529   ATGATCCCTGGGCTTAGTCGCCTT   3530   ACCGTATGCCTCAACAGAGTGGCT   3531   CCACCAAATCGCATAAGCTCCACC   3532   TCTCAGTTTAATCCCGTGATCGGG   3534   CGGGAAGAAAGCCTCACA   3534   CGGGAAGAAAGGCCTAAAGCTTTG   3535   TTTTGGACATTTTTCTGCATCGGG   3536   GCAGGGGTCCTTTTCCACGGTAAT   3537   TCAAATAGGGCGTAGGCAAGCTTG   40   3538   ATGAAGTTCCATCCTGTCCGGCC   3539   AGAATGATTAAGCGCAAACGCAGC		3519	TGGCCTCGCGATCACCACGATGTT
3522   AATCGCAGATGGTTCGTGGCACAA   3523   TAAAGCGTCTAGAGGCCGGCTGTG   3524   TGGCTAAACGAAACTGGGAATCGG   3525   CCTATGCAGCCACTGGTGTCCTTC   3526   ACGTGAGATCCAAGGGTGGCTCCT   3527   TAAACGCCAAAAACCACGAGCAGG   3528   CCATGGAATGGAAAGCATTGGACG   3529   ATGATCCCTGGGCTTAGTCGCCTT   3530   ACCGTATGCCTCAACAGAGTGGCT   3531   CCACCAAATCGCATAAGCTCCACC   3532   TCTCAGTTTAATCCCGTGATCGGG   3533   AAAGGACTACGCCCATCGCTCACA   3534   CGGGAAGAAAGGCCTAAAGCTTTG   3535   TTTTGGACATTTTTCTGCATCGGG   3536   GCAGGGGTCCTTTTCCACGGTAAT   3537   TCAAATAGGGCGTAGGCAAGCTTG   40   3538   ATGAAGTTCCATCCTGTCCGGGCC   3539   AGAATGATTAAGCGCAAACGCAGC		3520	TTGGTAATCACTCGGCCAGCGCTA
3523   TAAAGCGTCTAGAGGCCGGCTGTG		3521	CGTTAGTAACGATCGTCGGTGCAA
3524   TGGCTAAACGAAACTGGGAATCGG		3522	AATCGCAGATGGTTCGTGGCACAA
3525 CCTATGCAGCCACTGGTGTCCTTC 3526 ACGTGAGATCCAAGGGTGGCTCCT 3527 TAAACGCCAAAAACCACGAGCAGG 3528 CCATGGAATGGAAGCATTGGACG 3529 ATGATCCCTGGGCTTAGTCGCCTT 3530 ACCGTATGCCTCAACAGAGTGGCT 3531 CCACCAAATCGCATAAGCTCCACC 3532 TCTCAGTTTAATCCCGTGATCGGG 3533 AAAGGACTACGCCCATCGCTCACA 3534 CGGGAAGAAAGGCCTAAAGCTTTG 3535 TTTTGGACATTTTCTGCATCGGG 3536 GCAGGGGTCCTTTTCCACGGTAAT 3537 TCAAATAGGGCGTAGGCAAGCTTG 40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC	25	3523	TAAAGCGTCTAGAGGCCGGCTGTG
3526   ACGTGAGATCCAAGGGTGGCTCCT     3527   TAAACGCCAAAAACCACGAGCAGG     3528   CCATGGAATGGAAAGCATTGGACG     3529   ATGATCCCTGGGCTTAGTCGCCTT     3530   ACCGTATGCCTCAACAGAGTGGCT     3531   CCACCAAATCGCATAAGCTCCACC     3532   TCTCAGTTTAATCCCGTGATCGGG     3533   AAAGGACTACGCCCATCGCTCACA     3534   CGGGAAGAAAGGCCTAAAGCTTTG     3535   TTTTGGACATTTTTCTGCATCGGG     3536   GCAGGGGTCCTTTTCCACGGTAAT     3537   TCAAATAGGGCGTAGGCAAGCTTG     40   3538   ATGAAGTTCCATCCTGTCCGGGCC     3539   AGAATGATTAAGCGCAAACGCAGC		3524	TGGCTAAACGAAACTGGGAATCGG
3527   TAAACGCCAAAAACCACGAGCAGG	i	3525	CCTATGCAGCCACTGGTGTCCTTC
3528   CCATGGAATGGAAAGCATTGGACG     3529   ATGATCCCTGGGCTTAGTCGCCTT     3530   ACCGTATGCCTCAACAGAGTGGCT     3531   CCACCAAATCGCATAAGCTCCACC     3532   TCTCAGTTTAATCCCGTGATCGGG     3533   AAAGGACTACGCCCATCGCTCACA     3534   CGGGAAGAAAGGCCTAAAGCTTTG     3535   TTTTGGACATTTTTCTGCATCGGG     3536   GCAGGGGTCCTTTTCCACGGTAAT     3537   TCAAATAGGGCGTAGGCAAGCTTG     40   3538   ATGAAGTTCCATCCTGTCCGGGCC     3539   AGAATGATTAAGCGCAAACGCAGC		3526	ACGTGAGATCCAAGGGTGGCTCCT
3529 ATGATCCCTGGGCTTAGTCGCCTT 3530 ACCGTATGCCTCAACAGAGTGGCT 3531 CCACCAAATCGCATAAGCTCCACC 3532 TCTCAGTTTAATCCCGTGATCGGG 3533 AAAGGACTACGCCCATCGCTCACA 3534 CGGGAAGAAAGGCCTAAAGCTTTG 3535 TTTTGGACATTTTTCTGCATCGGG 3536 GCAGGGGTCCTTTTCCACGGTAAT 3537 TCAAATAGGGCGTAGGCAAGCTTG 40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC		3527	TAAACGCCAAAAACCACGAGCAGG
3530 ACCGTATGCCTCAACAGAGTGGCT 3531 CCACCAAATCGCATAAGCTCCACC 3532 TCTCAGTTTAATCCCGTGATCGGG 3533 AAAGGACTACGCCCATCGCTCACA 3534 CGGGAAGAAAGGCCTAAAGCTTTG 3535 TTTTGGACATTTTCTGCATCGGG 3536 GCAGGGGTCCTTTTCCACGGTAAT 3537 TCAAATAGGGCGTAGGCAAGCTTG 40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC	30	3528	CCATGGAATGGAAAGCATTGGACG
3531 CCACCAAATCGCATAAGCTCCACC 3532 TCTCAGTTTAATCCCGTGATCGGG 3533 AAAGGACTACGCCCATCGCTCACA 3534 CGGGAAGAAAGGCCTAAAGCTTTG 3535 TTTTGGACATTTTTCTGCATCGGG 3536 GCAGGGGTCCTTTTCCACGGTAAT 3537 TCAAATAGGGCGTAGGCAAGCTTG 40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC		3529	ATGATCCCTGGGCTTAGTCGCCTT
3532 TCTCAGTTTAATCCCGTGATCGGG 3533 AAAGGACTACGCCCATCGCTCACA 3534 CGGGAAGAAAGGCCTAAAGCTTTG 3535 TTTTGGACATTTTTCTGCATCGGG 3536 GCAGGGGTCCTTTTCCACGGTAAT 3537 TCAAATAGGGCGTAGGCAAGCTTG 40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC		3530	ACCGTATGCCTCAACAGAGTGGCT
3533 AAAGGACTACGCCCATCGCTCACA 3534 CGGGAAGAAAGGCCTAAAGCTTTG 3535 ITTTGGACATTTTCTGCATCGGG 3536 GCAGGGGTCCTTTTCCACGGTAAT 3537 TCAAATAGGGCGTAGGCAAGCTTG 40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC		3531	CCACCAAATCGCATAAGCTCCACC
3534 CGGGAAGAAGGCCTAAAGCTTTG 3535 TTTTGGACATTTTTCTGCATCGGG 3536 GCAGGGGTCCTTTTCCACGGTAAT 3537 TCAAATAGGGCGTAGGCAAGCTTG 40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC		3532	TCTCAGTTTAATCCCGTGATCGGG
3535 TTTTGGACATTTTTCTGCATCGGG 3536 GCAGGGGTCCTTTTCCACGGTAAT 3537 TCAAATAGGGCGTAGGCAAGCTTG 40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC	35	3533	AAAGGACTACGCCCATCGCTCACA
3536 GCAGGGGTCCTTTTCCACGGTAAT 3537 TCAAATAGGGCGTAGGCAAGCTTG 40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC		3534	CGGGAAGAAGGCCTAAAGCTTTG
3537 TCAAATAGGGCGTAGGCAAGCTTG 40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC		3535	TTTTGGACATTTTTCTGCATCGGG
40 3538 ATGAAGTTCCATCCTGTCCGGGCC 3539 AGAATGATTAAGCGCAAACGCAGC		3536	GCAGGGTCCTTTTCCACGGTAAT
3539 AGAATGATTAAGCGCAAACGCAGC		3537	TCAAATAGGGCGTAGGCAAGCTTG
	40	3538	ATGAAGTTCCATCCTGTCCGGGCC
3540 GGCAGCAGAGTGGCCTAGTTCC		3539	AGAATGATTAAGCGCAAACGCAGC
		3540	GGCAGCAGAGAGTGGCCTAGTTCC

	3541	GTGCAGAGCCGGCCTTATGTAAGA
	3542	CATACGGGTATGGCGATGGTTACC
	3543	AAGAACAGGAACCGCTGACAAGGA
į	3544	GATGTGTGCGCGTCCTTAAGGGC
5	3545	TATCCATGTAAGGCTCCTGAGGCG
	3546	AGTTTTTCCTAAACGATCCGCGC
į	3547	CTGACCGGACGACCCAGAATGTAT
	3548	GCATGTGGTCAAAGCTTGTCGATG
	3549	CAGAAGTGCATGGGTTCGGATGAA
10	3550	ATAGCGTACCGGAGGGCTTACCAG
	3551	AAGACTTGGCGCTTGTGGGTAAGG
	3552	TATTGTGGCGCCTCACGCGCAATC
	3553	TCGGCCATGGGATTTCACAAAGTC
	3554	TGGTCGGTGCCGTTTCACCTTTAC
15	3555	CATTTCCGCGGGCAGGAGAAGAT
	3556	CCTGAGTCGCGATACGACTCAACA
	3557	AGGTGTACCGCCGTCGGGTTATAC
	3558	TCCTTGTACGAGCCAAGCCTGGGT
	3559	AGAAGCCCGAAGTCCCGTGTAGAC
20	3560	AGAGGGCCCTTAGGCAAATACGT
	3561	ATGCGGCAACATCCGATCGTAGAT
	3562	CGCAGTGGCAGTAAAGACAGAGG
	3563	TCGGGTAGTGCAAACCTCAATCGT
	3564	TCTTCACTGTGGTGGACTTGGGG
25	3565	GTCCCAGGGCGATTGGTACTAAGG
	3566	GGTAGATCCAGCCATTGGGACCTC
	3567	GGGGATTGTGCGCTCCAAGGACCC.
	3568	CTCTGTCCTAGACTGAGCCGTCGC
	3569	CGATGAACAAATGAGTGCGTGTGA
30	3570	GAGGTCGAGCTGCCTGAGAGGAGT
	3571	CAGTGGGACTGCTAACGTGGGTCA
* ** .	3572	GAGTCGCTCGAGGAACTACGGCCG
	3573	CGGCTACGGAATGATGCAGGATGG
	3574	TCGCTCTCGCTATGGCAATTCTGG
35	3575	TGAATCACGGCCCTCTCTGGTACA
	3576	CAGGTGCCATCGAGCGCTTTAGTG
	3577	TGGGAAAATCGAAATCGTCAGGAA
	3578	CGGGGAGGAAGATGTTCCAGCGGT
	3579	TGTGGACCGGTGGTCACGTCTTTT
40	3580	GCACGTCTCGCAATCTGCGATCAG
	3581	CCTAATGCCGTATCAGCGACCAGA
	3582	ATAACGCGGGTGAAGGATTCGTCT

	3583	TTCAACCTTGTGGGGCGTCCCACT
	3584	CTACTTCCAAATCTCCGCGTCGGT
	3585	AGCGAACGCACTGCCAGTGGATAC
	3586	GAAAGTGGCGGCGAGGAAAAACAC
5	3587	CAGGGGGCGCATATTTGACAGATT
	3588	TAACTCGCTGCCCTCAACTCAGGG
!	3589	TCGATTGTTGGGTCTACCGTGGTT
	3590	GCTGGGATTAGTGCCGGGTAACCG
,	3591	TGGTTGCAACATCGCGCTATTACG
10	3592	GGGCGTGCTTTGAGCTGAAGCGTG
	3593	ATGTTGAGGTTAGTCCCCGACCGT
	3594	GACCGCGTAGTTAGCAATGTTGCG
	3595	CCAACCCACTGACATCGATGGAAA
	3596	TGCTGCTATTGTCGCACCGATATG
15	3597	TACAAAGAATCGGGACCTGCGACT
	3598	GCGCCTCATCCCGCATCGAATTAT
	3599	CGAGGGATTTTGACCAGTGGATGA
	3600	TGATAGGCATACGCGGAGAAGTCC
	3601	CGAGTTGTCAACGGCCATCGAATT
20	3602	CCCGCACCGGATTATTAACGAACC
	3603	TCGTCCTTGGGTCCCATGTAGAAA
	3604	TCACGAAGCATCTTTGCGACGTAA
	3605	TGTAAGTTGCCAACTTTGCGGGTT
	3606	GCACACCACCGGCAGATATCAAGA
25	3607	GTGTGGTTTGTGAATGCGTGGTGA
	3608	CAGCTGCGGCCCCACCTTCGATAC
	3609	CAGCGAAGGACGACTACTGTGCAC
	3610	CAGCAGTTCGTTGCTTCCTGATTG
	3611	AAACAATGGAGTGTACCTCCCGCA
30	3612	ACTATACGAGCATCATGAGCCGGC
	3613	CTTGATAAGGTGGGATTCCGGGCA
- <del></del> .	3614	TTTAGTAGAACGCTGCGCGCGGTG
	3615	AACTGACGTTGAATAAAACCGGCG
	3616	GCTTTGTTCTACCGCGGATCATCA
35	3617	TGATATGCAGCGGCTCGGCCTTAT
	3618	CGGGAGTGCGTTTATGTCCATGAT
	3619	CAAATACCGGGAACGGATCGAAGC
• •	3620	GATCAAGCCGAATGCTTTGCAAAG
	3621	AGAGAGGATGCGCTCCGGTTAGAG
40	3622	CTTAGTCAGCATACCCGCGGGCAG
	3623	GTGTCTCGGGGCGCAGGACCTGTA
	3624	AACGCTCCACTGCCGTGATTCACT

3625 GATCGTTGAGTCATCCCGTGGAGT 3626 CCTGGCCGGGTGCAATACTACAGT 3627 CGTAGCCCGAACGTAAGGGTCAGC 3628 CTGTGGCTTCAAAAGGATCCGTTG 3628 CTGTGGCTTCAAAAGGATCCGTTG 3629 CTTGGGTCGGTGAATGCTCCCAA 3630 GCCGTTGTGCGCTATTCTTACGAA 3631 TCCCACCATGGCTAGAACCAGTAA 3631 TCCCACCATGGCTAGAACCAGTAA 3632 ATTTGTTGCAATGGGATGACTCG 3633 CGAATATCCGCTCGAACCTGACAA 3634 AAGTGGCGTGCGAACCTGACAC 3635 TGATGTCCCTCCACACCGTGAACT 3636 CAAATGAAGTCGGCGGACCTGAACT 3638 GTGACCCTTAGAGCGGACC 3639 ATAAGGACATATTCGGCTGGAA 3640 AGATCTCACAACGGGCAATATTG 3641 GTTGCGTTGGGGCCAATACAA 3642 TGTGAGGTTTTCCTAAGGCCAACC 3643 CATCTTGGTTTGGGGCCTATACAA 3642 TGTGAGGTTTTCCTAAGGCCAACCG 3643 CATCTTGGTTTGGGAACGAACTCA 3645 CATCTTGGTTTGCGAACGACCTCA 3646 CATCTTGGTTTGCGAACGTGCAT 3647 GTCGATGGGGAACTCCA 3648 CCTATTCTGACAGATTCCGGCCCAAT 3649 TCCGTTTGGGGAACTCCACTAGAA 3640 CCTATTCTGGACTGCGCCCAAT 3641 GTTCGATTGCGACTGCCCAACT 3642 CATCTTTGGTTTGCAACGTGCAA 3643 CATCTTTGGTTTGCAACGTGCAA 3644 TTCCTGTCACAGATTCCGGCCCAAT 3645 CCTATTCTGGACTGCGCCCAAT 3646 CCTATTCTGGACTGCGCCCAAT 3647 GTCGATGGGGAACTCCATGGCCAA 3648 CGACCGTGAGGGCCCACAT 3649 TCTCGTTTGCACGACTGCGCCAAT 3649 TCTCGTTTGCACGACTGCGCCAA 3650 ACTCCGCCGAATGAAGGAATACCT 3651 CCTCGACCTGCGTGAATGACT 3652 TAACCACCGGTTTTTGCAACAA 3653 GCCTCCTGCAGTACGGAACGCGCAACTACGTGCAA 3654 GGCACCGTTTTGCACAAA 3655 TAATCCACCGGCTTTTTGGAAGGC 3656 TAATCCACCGGCTTTTGCTGGAAGGC 3657 TTACCACCGGCTTTTGCTGGAAGGC 3658 CATCCCGTACCGGGGAGAACAGTC 3659 ACGAGGTACACGTCCACTTAGTTCGA 3650 CTAATAGTTTGGCAGAGGGGCGCT 3660 CTAATAGTTTGGCAGAGGGGCGCT 3661 AGCATGGTAACCCTGAGCCAGAGA 3662 GGAATCCTTGTGGGAACACCCGAT 3663 CTGATTGGGAACACCCGACT 3664 ACTTTTTGGCAGAGAGGCCCAACT 3666 CCAGGATGAACACCCGCAATTAA			
3627   CGTAGCCCGAACGTAAGGGTCAGC   3628   CTGTGGCTTCAAGAGGATCCGTTG   3628   CTGTGGCTTCAAGAGGATCCGTTG   3629   CTTGGGTTGGTGTAATGTCCTCGA   3630   GCCGTTGGCTTATTCTTACGGA   3631   TCGCACGATGGCTAATCCTACACACACACACACACACACA		3625	GATCGTTGAGTCATCCCGTGGAGT
3628   CTGTGGCTTCAAGAGGATCCGTTG		3626	CCTGGCCGGGTGCAATACTACAGT
5         3629         CTTGGGTCGGTGTAATGTCCTCGA           3630         GCCGTTGTGCGCTATTCTTACGGA           3631         TCGCACGATGGCTAGAACGAGTAA           3632         ATTTGTTGCAATGGGATGGCTCTG           3633         CGAATATCCGCTCGAACCTGACAA           10         3634         AAGTGGCGTGCTCATAGGCGGAC           3635         TGATGTCCCTCCACACCGTGAACT           3636         CAAATGAAGTCGGGGCCAATATTG           3637         GATGCATAGAGGTCACCAGGGC           3638         GTACCCTAGAAGCTCACCAGGGC           3640         AGATCTCACAACCGGAACCGGAC           3641         GTTGCGTTTGGGCCTCACACAGG           3642         TGTGAGGTTTTCCTAAGGCGAACG           3643         CATCTTGGTTTGCGAACGAACTCA           3644         GTTGCGTTGCACAGATTCGTGGCCTT           3645         AACTTTCCGGACTCCTGAACGTGCA           3646         CCTATTCTGGACATTCCTGACCTAC           3647         GTCGATGGGGACTCCACTTACGTAGA           3648         CGACCGTGAGGGTCCATTACGTAGA           3649         TCTCGTTTCGACACATTCCTGAA           3640         TCTCGATTGGACTCCACTTACGTAGA           3641         TCTCGTTTGCACGCAACTGGGCCA           3642         TAACAGCCGTTTTGCGGCCA           3643         CCTCCTGCCGAATGAGGATCCACA		3627	CGTAGCCCGAACGTAAGGGTCAGC
3630   GCCGTTGTGCGCTATTCTTACGGA		3628	CTGTGGCTTCAAGAGGATCCGTTG
3631   TCGCACGATGGCTAGAACGAGTAA	5	3629	CTTGGGTCGGTGTAATGTCCTCGA
3632   ATTTGTTGCAATGGGATGGCTCTG		3630	GCCGTTGTGCGCTATTCTTACGGA
3633   CGAATATCCGCTCGAACCTGACAA     3634   AAGTGGCGTGCGTCATAGCGCGAC     3635   TGATGTCCCTCCACACCGTGAACT     3636   CAAATGAAGTCGGGGCCAATATTG     3637   GATGCATAGCGTGATTCCGGTGTA     3638   GTGACCGTGAATCTCGGCTGAACT     3639   ATAAGGACATATTCGGCCTGGGA     3640   AGATCTCACAACCGGAACCGGACG     3641   GTTGCGTTTGGGGGCAACCGGACG     3642   TGTGAGGTTTCCTAAGGCGAACG     3643   CATCTTGGTTTGCGAACGAACTCA     3644   TTCCTGTCACAGACTCACACGGACG     3645   AACTTACCGATCCCTGAACGTGCA     3646   CCTATTCTGGAACTTCGTGGCCTT     3647   GTCGATGGGGAACCTCAT     3648   CGACCGTGAGGATCCATACGAT     3649   TCTCGTTTGCACGAACTGGAC     3650   ACTCCGCCGAATGAAGGAATAGCT     3651   CCTCGACCTGGCGTGATGGAAGG     3652   TAACAGCCGTTTGCATT     3653   GCCTCCTGCAGTACGTGCA     3654   GGCAGTCGGTCCCACTTTGTTCGA     3655   TAATCCACGGCTTTTGGTAGA     3656   CGGTGCAAGATCCTGGTTTGGA     3657   TTTCACCACTACCTTAGTTCGA     3658   CATCCCGTACCGGGAGCACTC     3659   ACGAGGTACCGGGACCAATC     3659   ACGAGGTACCGAGGACCTCGG     3660   CTAATAGTTTGGCAAGGGGCCT     3661   AGCATGGTAACGCAACTCCTGT     3662   GGAATCCTTGTTGGAACCCGAT     3663   CTGATGTGGGAACAGCCGAT     3664   ACTTTTGCAAACCCGTTTA     3665   GCGATGACGTGAACGCGTTTA     3665   GCGATGACGTAACGCGTTTA     3665   GCGATGACGTAACGCGTTTA     3665   GCGATGACGTAACGCGGTTTA     3665   GCGATGACGAGAGACCAATC     3666   CTGATGTTGGGAACAGCCGAT     3667   AGCATGTTAACCCTGAGCCAGCAG     3668   CTGATGTGGGAACAAGCCGAT     3669   CTGATGTGGGAACAAGCCGAT     3660   CTGATGTGGGAACAAGCCGAT     3661   AGCATGGTAACCCTGAGCCAGCAG     3662   GGATCCTTTTTTGCAATCCCGGCGTTTTA     3665   GCGATGACGTGACGAGTTCTCACCCCCCATTA     3665   GCGATGACGTGACGAGTTCTCACCCCCCCCGATTCTCACCCCCCCC		3631	TCGCACGATGGCTAGAACGAGTAA
10 3634 AAGTGGCGTCATAGCGCGAC 3635 TGATGTCCTCCACACCGTGAACT 3636 CAAATGAAGTCGGGGCCAATATTG 3637 GATGCATAGCGTGATTCCGGTGTA 3638 GTGACCGTAGAAGCTCACCAGGGC 3639 ATAAGGACATATTCGGCTGGGGA 3640 AGATCTCACAACCGGAACCGGACG 3641 GTTGCGTTTGGGGGCGTCATACAA 3642 TGTGAGGTTTTCCTAAGGCGAACG 3643 CATCTTGGTTTGCGAACGAACCG 3644 TTCCTGTCACAGATTCGTGGCA 3645 AACTTACCGATCCTGAACGTGCA 3646 CCTATTCTGGACATGCGCCACAT 3647 GTCGATGGGAACTCCATTGCAT 3648 CGACCGTGAGGGTCCATACAA 3649 TCTCGTTTGCACAACTGGACC 3650 ACTCCGCGAATGAAGAACTC 3651 CCTCGACCTGAACGTACAC 3652 TAACAGCCGTATTGGATTCGTT 3653 GCCTCCTGCAGTTCCTTT 30 3654 GGCAGTCGGTCCACTTTTTT 30 3655 TAATCCACGGCTTTTTTTTTTTTTTTTTTTTTTTTTTTT		3632	ATTTGTTGCAATGGGATGGCTCTG
3635   TGATGTCCTCCACACCGTGAACT		3633	CGAATATCCGCTCGAACCTGACAA
3636 CAAATGAAGTCGGGGCCAATATTG 3637 GATGCATAGCGTGATTCCGGTGTA 3638 GTGACCGTAGAAGCTCACCAGGGC 3639 ATAAGGACATATTCGGCCTGGGGA 3640 AGATCTCACAACCGGAACCGGACG 3641 GTTGCGTTTGGGGCGCTATACAA 3642 TGTGAGGTTTTCCTAAGGCGAACCG 3643 CATCTTGGTTTGCGAACGAACTCA 3644 TTCCTGTCACAGATTCGTGCCTT 3645 AACTTACCGATTCCTGAACGTGCA 3646 CCTATTCTGGACTGAACGTGCA 3647 GTCGATTGGGACTCAACTTGAACTTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACATTGAACAACATTCAACATTGAACAACAACATCAACATTGAACAACAACAACAACAACAACAACAACAACAACAACAAC	10	3634	AAGTGGCGTGCGTCATAGCGCGAC
3637 GATGCATAGCGTGATTCCGGTGTA 3638 GTGACCGTAGAAGCTCACCAGGGC 3639 ATAAGGACATATTCGGCCTGGGGA 3640 AGATCTCACAACCGGACCGGACG 3641 GTTGCGTTTGGGGGCGTCATACAA 3642 TGTGAGGTTTTCCTAAGGCGAACCG 3643 CATCTTGGTTTGCGAACGAACTCA 3644 TTCCTGTCACAGATTCGTGGCCTT 3645 AACTTACCGATCCCTGAACGTGCA 3646 CCTATTCTGGACATGCGGCCACAT 3647 GTCGATGGGGACCTCATTCAT 3648 CGACCGTGAGGGTCCATACAT 3649 TCTCGTTTGCAACAGATTCGTGGCCA 3650 ACTCCGCGAATGAAGGATACGTAGA 3651 CCTCGACCTGGCGTAACGTAGA 3652 TAACAGCCGTTTTCACA 3653 GCCTCCTGCAGTAGGAAGGC 3654 GGCAGTCGGTCCATTAGTTCGA 3655 TAATCCACGGCTTTGGTGGAAGTC 3656 CGGTGCAAGATCCTTGGTGGAAGTC 3657 TTTCACCACTACCTTAGGTCGCG 3658 CATCCCGTACCGGAGGACAAGTC 3659 ACGAGGTAAAGGATCCTGGCG 3660 CTAATAGTTTGCAAGAGGACAAGTC 3661 AGCATGGTAACCTGGCGAT 3662 GGAATCCTTGTGGGAACACGCGAT 3663 CTGATGTGGGAACAGCCGAT 3664 ACTTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGCCACTTGTT		3635	TGATGTCCCTCCACACCGTGAACT
3638   GTGACCGTAGAAGCTCACCAGGGC		3636	CAAATGAAGTCGGGGCCAATATTG
15   3639		3637	GATGCATAGCGTGATTCCGGTGTA
3640 AGATCTCACAACCGGAACCGGACG  3641 GTTGCGTTTGGGGGCGTCATACAA  3642 TGTGAGGTTTTCCTAAGGCGAACG  3643 CATCTTGGTTTGCGAACGAACTCA  3644 TTCCTGTCACAGATTCGTGGCCTT  3645 AACTTACCGATCCCTGAACGTGCA  3646 CCTATTCTGGACATGCGGCCACAT  3647 GTCGATGGGGAGCTCCAGTTGCAT  3648 CGACCGTGAGGGTCCATACGTAGA  3649 TCTCGTTTGCACGAACTGGGCCA  3650 ACTCCGCCGAATGAAGGAATAGCT  3651 CCTCGACCTGGCGTGATGGAAGGC  3652 TAACAGCCGTTTTGCGGTTCACAA  3653 GCCTCCTGCAGTACGGTCCTGTT  30 3654 GGCAGTCGGTCCACTTAGTTCGA  3655 TAATCCACGGCTTTGGTGGAAGTC  3656 CGGTGCAAGATCCTGGTTGTGA  3657 TTTCACCACTACCTTAGGTCGGC  3658 CATCCCGTACCGGAGGACAAGTC  3659 ACGAGGTAAAGGGATCCTGGT  3660 CTAATAGTTTGGCAGAGGGCCT  3661 AGCATGGTAACCCTGAGCCAGCAG  3662 GGAATCCTTGTGGGAACACCCGAT  3663 CTGATGTGGGAACAGCCGAT  3664 ACTTTTTGCAATCCCGGCGTTGTA  40 3664 ACTTTTTGCAATCCCGGCGTTGTA  3665 GCGATGACGTGACCAGCACCC		3638	GTGACCGTAGAAGCTCACCAGGGC
3641   GTTGCGTTTGGGGGCGTCATACAA   3642   TGTGAGGTTTTCCTAAGGCGAACG   3643   CATCTTGGTTTGCGAACGAACTCA   3643   CATCTTGGTTTGCGAACGAACTCA   3644   TTCCTGTCACAGATTCGTGGCCTT   3645   AACTTACCGATCCCTGAACGTGCA   3646   CCTATTCTGGACATGCGGCCACAT   3647   GTCGATGGGGAGCTCCAGTTGCAT   3648   CGACCGTGAGGGTCCATACGTAGA   3649   TCTCGTTTGCACGCAACTGGGCCA   3650   ACTCCGCCGAATGAAGGAATAGCT   CCTCGACCTGGCGTGATGGAAGGC   3651   CCTCGACCTGGCGTGATGGAAGGC   3652   TAACAGCCGTTTTGCGGTTCACAA   3653   GCCTCCTGCAGTACGGTGTCTGTT   GCACCTGCAGTACGGTGTCTGTT   3654   GGCAGTCGGTCCCACTTAGTTCGA   3655   TAATCCACGGCTTTGGTGGAAGTC   3656   CGTGCAAGATCCTGGTTGTGTGA   3657   TTTCACCACTACCTTAGGTCGGCG   3658   CATCCCGTACCGGAGGACAAGTC   3669   ACGAGGTAAAGGGATCCTGGTGG   3660   CTAATAGTTTGGCAGAGGGGCGCT   3661   AGCATGGTAACCCTGAGCCAGCAG   3662   GGAATCCTTGTGGGAACAGCCGAT   3663   CTGATGTGGGAAACAGCCGAT   3664   ACTTTTTGCAATCCCGGCGTTGTA   3665   GCGATGACGTGACGAGTTCTCACC	15	3639	ATAAGGACATATTCGGCCTGGGGA
3642   TGTGAGGTTTTCCTAAGGCGAACG     3643   CATCTTGGTTTGCGAACGAACTCA     3644   TTCCTGTCACAGATTCGTGGCCTT     3645   AACTTACCGATCCCTGAACGTGCA     3646   CCTATTCTGGACATGCGGCCACAT     3647   GTCGATGGGGAGCTCCAGTTGCAT     3648   CGACCGTGAGGGTCCATACGTAGA     3649   TCTCGTTTGCACGCAACTGGGCCA     3650   ACTCCGCCGAATGAAGGAATAGCT     3651   CCTCGACCTGGCGTGATGGAAGGC     3652   TAACAGCCGTTTTGCGGTTCACAA     3653   GCCTCCTGCAGTACGGTGCTGTT     3654   GGCAGTCGGTCCCACTTAGTTCGA     3655   TAATCCACGGCTTTGGTGGAAGTC     3656   CGGTGCAAGATCCTGGTTGTGA     3657   TTTCACCACTACCTTAGGTCGGCG     3658   CATCCCGTACCGGAGGACAAGTC     3659   ACGAGGTAAAGGGATCCTGGT     3660   CTAATAGTTTGGCAGAGGGCGCT     3661   AGCATGGTAACCCTGAGCCAGCAG     3662   GGAATCCTTGTGGGAACAGCCGAT     3663   CTGATGTGGGAACAGCCGAT     3664   ACTTTTTGCAATCCCGGCGTTGTA     3665   GCGATGACGTGACGAGTTCTCACC		3640	AGATCTCACAACCGGAACCGGACG
3643   CATCTTGGTTTGCGAACGAACTCA     3644		3641	GTTGCGTTTGGGGGCGTCATACAA
3644   TTCCTGTCACAGATTCGTGGCCTT	,	3642	TGTGAGGTTTTCCTAAGGCGAACG
3645   AACTTACCGATCCTGAACGTGCA   3646   CCTATTCTGGACATGCGGCCACAT   3647   GTCGATGGGGAGCTCCAGTTGCAT   3648   CGACCGTGAGGGTCCATACGTAGA   3649   TCTCGTTTGCACGCAACTGGGCCA   3650   ACTCCGCCGAATGAAGGAATAGCT   3651   CCTCGACCTGGCGTGATGGAAGGC   3652   TAACAGCCGTTTTGCGGTTCACAA   3653   GCCTCCTGCAGTACGGTGTCTGTT   3654   GGCAGTCGGTCCCACTTAGTTCGA   3655   TAATCCACGGCTTTGGTGGAAGTC   3656   CGGTGCAAGATCCTGGTTGTGAA   3657   TTTCACCACTACCTTAGGTCGCG   3658   CATCCCGTACCGGAGGACAAGTC   3659   ACGAGGTAAAGGGATCCTGGT   3660   CTAATAGTTTGGCAGAGGGCGCT   3661   AGCATGGTAACCCTGAGCCAGCAG   3662   GGAATCCTTGTGGGAACAGCCGAT   3663   CTGATGTGGGAACAGCCGAT   3664   ACTTTTTGCAATCCCGGCGTTGTA   3665   GCGATGACGTGACGAGTTCTCACC		3643	CATCTTGGTTTGCGAACGAACTCA
3646   CCTATTCTGGACATGCGGCCACAT   3647   GTCGATGGGGAGCTCCAGTTGCAT   3648   CGACCGTGAGGGTCCATACGTAGA   25   3649   TCTCGTTTGCACGCAACTGGGCCA   3650   ACTCCGCCGAATGAAGGAATAGCT   3651   CCTCGACCTGGCGTGATGGAAGGC   3652   TAACAGCCGTTTTGCGGTTCACAA   3653   GCCTCCTGCAGTACGGTGTCTGTT   3654   GGCAGTCGGTCCCACTTAGTTCGA   3655   TAATCCACGGCTTTGGTGGAAGTC   3656   CGGTGCAAGATCCTGGTTGTGA   3657   TTTCACCACTACCTTAGGTCGGCG   3658   CATCCCGTACCGGAGGACAAGTC   3659   ACGAGGTAAAGGGATCCGTGCTGG   3660   CTAATAGTTTGGCAGAGGGGCGCT   3661   AGCATGGTAACCCTGAGCCAGCAG   3662   GGAATCCTTGTGGGAACAGCCGAT   3663   CTGATGTGGGAACAGCCGAT   3664   ACTTTTTGCAATCCCGGCGTTGTA   3665   GCGATGACGTGACGAGTTCTCACC	20	3644	TTCCTGTCACAGATTCGTGGCCTT
3647   GTCGATGGGGAGCTCCAGTTGCAT		3645	AACTTACCGATCCCTGAACGTGCA
3648		3646	CCTATTCTGGACATGCGGCCACAT
3649   TCTCGTTTGCACGCAACTGGGCCA     3650   ACTCCGCCGAATGAAGGAATAGCT     3651   CCTCGACCTGGCGTGATGGAAGGC     3652   TAACAGCCGTTTTGCGGTTCACAA     3653   GCCTCCTGCAGTACGGTGTCTGTT     3654   GGCAGTCGGTCCCACTTAGTTCGA     3655   TAATCCACGGCTTTGGTGGAAGTC     3656   CGGTGCAAGATCCTGGTTGTGA     3657   TTTCACCACTACCTTAGGTCGGCG     3658   CATCCCGTACCGGGAGGACAAGTC     3659   ACGAGGTAAAGGGATCCGTGCTGG     3660   CTAATAGTTTGGCAGAGGGGCGCT     3661   AGCATGGTAACCCTGAGCCAGCAG     3662   GGAATCCTTGTGGGAACAGCCGAT     3663   CTGATGTGGGAACAGCCGAT     3664   ACTTTTTGCAATCCCGGCGTTGTA     3665   GCGATGACGTGACGAGTTCTCACC		3647	GTCGATGGGGAGCTCCAGTTGCAT
3650   ACTCCGCCGAATGAAGGAATAGCT     3651   CCTCGACCTGGCGTGATGGAAGGC     3652   TAACAGCCGTTTTGCGGTTCACAA     3653   GCCTCCTGCAGTACGGTGTCTGTT     3654   GGCAGTCGGTCCCACTTAGTTCGA     3655   TAATCCACGGCTTTGGTGGAAGTC     3656   CGGTGCAAGATCCTGGTTGTGTGA     3657   TTTCACCACTACCTTAGGTCGGCG     3658   CATCCCGTACCGGGAGGACAAGTC     3659   ACGAGGTAAAGGGATCCGTGCTGG     3660   CTAATAGTTTGGCAGAGGGGCGCT     3661   AGCATGGTAACCCTGAGCCAGCAG     3662   GGAATCCTTGTGGGAACAGCCGAT     3663   CTGATGTGGGAACAGCGGAC     3664   ACTTTTGCAATCCCGGCGTTGTA     3665   GCGATGACGTGACGAGTTCTCACC		3648	CGACCGTGAGGGTCCATACGTAGA
3651   CCTCGACCTGGCGTGATGGAAGGC     3652	25	3649	TCTCGTTTGCACGCAACTGGGCCA
3652 TAACAGCCGTTTTGCGGTTCACAA 3653 GCCTCCTGCAGTACGGTGTCTGTT 30 3654 GGCAGTCGGTCCCACTTAGTTCGA 3655 TAATCCACGGCTTTGGTGGAAGTC 3656 CGGTGCAAGATCCTGGTTGTGA 3657 TTTCACCACTACCTTAGGTCGGCG 3658 CATCCCGTACCGGGAGGACAAGTC 35 3659 ACGAGGTAAAGGGATCCGTGCTGG 3660 CTAATAGTTTGGCAGAGGGGCGCT 3661 AGCATGGTAACCCTGAGCCAGCAG 3662 GGAATCCTTGTGGGAACAGCCGAT 3663 CTGATGTGGGAAAGAGGGTGGGAC 40 3664 ACTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGACGAGTTCTCACC		3650	ACTCCGCCGAATGAAGGAATAGCT
3653 GCCTCCTGCAGTACGGTGTCTGTT  3654 GGCAGTCGGTCCCACTTAGTTCGA  3655 TAATCCACGGCTTTGGTGGAAGTC  3656 CGGTGCAAGATCCTGGTTGTGTGA  3657 TTTCACCACTACCTTAGGTCGGCG  3658 CATCCCGTACCGGGAGGACAAGTC  3659 ACGAGGTAAAGGGATCCGTGCTGG  3660 CTAATAGTTTGGCAGAGGGGCGCT  3661 AGCATGGTAACCCTGAGCCAGCAG  3662 GGAATCCTTGTGGGAACAGCCGAT  3663 CTGATGTGGGAAAGAGGGTGGAC  40 3664 ACTTTTTGCAATCCCGGCGTTGTA  3665 GCGATGACGTGACGAGTTCTCACC		3651	CCTCGACCTGGCGTGATGGAAGGC
3654 GGCAGTCGGTCCCACTTAGTTCGA 3655 TAATCCACGGCTTTGGTGGAAGTC 3656 CGGTGCAAGATCCTGGTTGTGTGA 3657 TTTCACCACTACCTTAGGTCGGCG 3658 CATCCCGTACCGGGAGGACAAGTC 3659 ACGAGGTAAAGGGATCCGTGCTGG 3660 CTAATAGTTTGGCAGAGGGGCGCT 3661 AGCATGGTAACCCTGAGCCAGCAG 3662 GGAATCCTTGTGGGAACAGCCGAT 3663 CTGATGTGGGAAAGAGGGTGGGAC 40 3664 ACTTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGACCACC		3652	TAACAGCCGTTTTGCGGTTCACAA
3655 TAATCCACGGCTTTGGTGAAGTC  3656 CGGTGCAAGATCCTGGTTGTGTA  3657 TTTCACCACTACCTTAGGTCGGCG  3658 CATCCCGTACCGGGAGGACAAGTC  3659 ACGAGGTAAAGGGATCCGTGCTGG  3660 CTAATAGTTTGGCAGAGGGGCGCT  3661 AGCATGGTAACCCTGAGCCAGCAG  3662 GGAATCCTTGTGGGAACAGCCGAT  3663 CTGATGTGGGAAAGAGGGTGGGAC  40 3664 ACTTTTTGCAATCCCGGCGTTGTA  3665 GCGATGACGTGACGAGTTCTCACC		3653	GCCTCCTGCAGTACGGTGTCTGTT
3656 CGGTGCAAGATCCTGGTTGTGA 3657 TTTCACCACTACCTTAGGTCGGCG 3658 CATCCCGTACCGGGAGGACAAGTC 3659 ACGAGGTAAAGGGATCCGTGCTGG 3660 CTAATAGTTTGGCAGAGGGGCGCT 3661 AGCATGGTAACCCTGAGCCAGCAG 3662 GGAATCCTTGTGGGAACAGCCGAT 3663 CTGATGTGGGAAAGAGGGTGGGAC 40 3664 ACTTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGACGAGTTCTCACC	30	3654	GGCAGTCGGTCCCACTTAGTTCGA
3657 TTTCACCACTACCTTAGGTCGGCG 3658 CATCCCGTACCGGGAGGACAAGTC 3659 ACGAGGTAAAGGGATCCGTGCTGG 3660 CTAATAGTTTGGCAGAGGGGCGCT 3661 AGCATGGTAACCCTGAGCCAGCAG 3662 GGAATCCTTGTGGGAACAGCCGAT 3663 CTGATGTGGGAAAGAGGGTGGGAC 40 3664 ACTTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGACGAGTTCTCACC		3655	TAATCCACGGCTTTGGTGGAAGTC
3658 CATCCCGTACCGGGAGGACAAGTC 3659 ACGAGGTAAAGGGATCCGTGCTGG 3660 CTAATAGTTTGGCAGAGGGGCGCT 3661 AGCATGGTAACCCTGAGCCAGCAG 3662 GGAATCCTTGTGGGAACAGCCGAT 3663 CTGATGTGGGAAAGAGGGTGGGAC 40 3664 ACTTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGACGAGTTCTCACC	· we :	3656	CGGTGCAAGATCCTGGTTGTGTGA
3659 ACGAGGTAAAGGGATCCGTGCTGG 3660 CTAATAGTTTGGCAGAGGGGCGCT 3661 AGCATGGTAACCCTGAGCCAGCAG 3662 GGAATCCTTGTGGGAACAGCCGAT 3663 CTGATGTGGGAAAGAGGGTGGGAC 40 3664 ACTTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGACGAGTTCTCACC		3657	TTTCACCACTACCTTAGGTCGGCG
3660 CTAATAGTTTGGCAGAGGGGCGCT 3661 AGCATGGTAACCCTGAGCCAGCAG 3662 GGAATCCTTGTGGGAACAGCCGAT 3663 CTGATGTGGGAAAGAGGGTGGGAC 40 3664 ACTTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGACGAGTTCTCACC		3658	CATCCCGTACCGGGAGGACAAGTC
3661 AGCATGGTAACCCTGAGCCAGCAG 3662 GGAATCCTTGTGGGAACAGCCGAT 3663 CTGATGTGGGAAAGAGGGTGGGAC 40 3664 ACTTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGACGAGTTCTCACC	35	3659	ACGAGGTAAAGGGATCCGTGCTGG
3662 GGAATCCTTGTGGGAACAGCCGAT 3663 CTGATGTGGGAAAGAGGGTGGGAC 40 3664 ACTTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGACGAGTTCTCACC		3660	CTAATAGTTTGGCAGAGGGGCGCT
3663 CTGATGTGGGAAAGAGGGTGGGAC 40 3664 ACTTTTTGCAATCCCGGCGTTGTA 3665 GCGATGACGTGACGAGTTCTCACC		3661	AGCATGGTAACCCTGAGCCAGCAG
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	40	3664	ACTTTTTGCAATCCCGGCGTTGTA
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		3666	CCAGGTATTGAGCCCCGCCATATA

	3667	TTGGACGTCCTCCGAATATTGGCA
Ī	3668	GGTAAGTGCGGGAAGTACGCTGAC
	3669	CCGCCTGAACCGTCGTAGGGATTA
Ī	3670	CGTTTTTGAGTAAGGATTGGGCGA
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	3672	TCCGGAAGGAAGGCGCGATATGGC
	3673	GTTGAGCGAATCGGACGGCTTTAC
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	3708	CCAATCCACTTGAGTCAACTTGCG

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3752 CTTCTCTTGTGCGGGCTCCCGT 3753 TTGAAGGGACCTGCCAAATGGCGA 3754 ACGCATGACGACGTCCAGTACGGG	
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	3895	CGGCGCGAAAGACTTGAACTTG
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	3912	TTTGCGGCCGTGACGAGCAAAAAT
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40	3916	TTGCGGTAGTTTGGTTACCACCGT
	3917	GCAGTGGCGACAAATACAGCTGAG
	3918	ACGGCATGATGGAGGGATAAACGT

	3919	TGGGATAATCCGCAAGCGCATAGC
	3920	CCTAGCTCTGCGCGTCTTTGCGC
	3921	TCCTGGAACTGCTGAAGGCGACTT
	3922	CGAAGGCGCATGGTGTAGTCTCC
;	3923	AACATTGTTCCCATCCCAGAGCAC
	3924	CCAGGCAAGAACAACCACGCGCT
	3925	AAATCCACAGGCGCGCCAAAGCTG
	3926	GCTCACCGCAGACTCCGCGCGATA
	3927	TAGGTGGCGAGAGAGCGCCCACAA
D	3928	GGCGTTGGTGTCGGGACCATGA
	3929	TCTGAATGCTTCCGTGCTTTCGTG
	3930	ACGCTCTGGACCTCGCTCATTCGA
	3931	TCCTTTATGCGCAGCGCTCGTGTT
	3932	TTGCCGTCCTGCAGCAGGTAGCTC
5	3933	GGTCTAGTGGCAGCAAGGAGCGAT
	3934	GGTAACGCGACCAGCTTAGACACC
	3935	GTGGCGATTGGCTTCCTATGCATA
	3936	TCAAAATACGGCCAGGAAGGGCAA
	3937	TGCCATGCAGTCAGGTACGATGGT
20	3938	ACAGGTTACGTCGTGTTCCCGT
	3939	CTCATGACGAACGAGCGGTCTGCA
	3940	GTCGTGCGAGAGGCCAAGACCTTA
	3941	GCTGGCTGACGCTGTTGTCAGAGG
	3942	GCTACAGTGCTGCGTCCCGTGCCT
25	3943	TTTACGAGCACCAAGCTGGCGTAG
	3944	ACGAGTTGACGGTCGTAGGGACCG
	3945	TCGGATGGTAGGAGGCGAGATCGG
	3946	ATTATGCAGATCCTGTGCATCCGC
	3947	AGGGATGGAGCAAGGAAGCATT
30	3948	ACCCCAGGACCCGTATTCCCTAGC
	3949	GCACCATCCTGGGGCTTCTCAATG
	3950	TACAATCCGTGGACGTTTGCTCAG
	3951	GGTAGGCGAATCCGACTGGCATAG
	3952	AGGACCGAACCCATGTGCAGCATC
35	3953	ATACACCGCACAGAAGCACAGCTG
	3954	TCCTTGGCGGCCGTGTGTTTATTG
	3955	CTCCACGCGAAGGGCGCTTGTAAC
	3956	TGGCCCTGCCATCCTCGGATTCAG
	3957	TGTCTATTCGCCAGCGTGAGCATC
40	3958	TGTTGTTGGCACGCCTCTACGGCA
	3959	GTGCCTCAACCGTATCGTGGCGGT
	3960	TCCTCGAAGTAGCGTGACCGAACC

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	3961	AAACAATTTCCTGCACTCTCGGCC
	3962	CACAAACTCGTCGAGGCACACAGT
	3963	GACGAAACGCTCGGCAGAAAGCCT
	3964	TCAACTCACACGGGACAGCAGTTC
5	3965	TCACGTGGATGGGCTTAGCTGGGC
	3966	AGGTGTTTGTTCCGACTGGCCACA
	3967	TCAACCCTCTATTCCCGAGCATTG
	3968	ACCTCACACAGCGTTCTCGTCGA
	3969	AACAGCATGCGGTCGCTGGCTTTC
0 .	3970	CACGGACACGTGTTACATCCGATG
	3971	CTGGGAGCCTGCTGATACATGGTG
	3972	CGTCCTATGGGCCATGGCCAGGAT
	3973	GTCCCCAAATCTCGCTTTACAGGC
	3974	TCACAAACCTGTGCGTGCATTGTC
5	3975	CACACTCGTGGCCTGCGTTGGGAA
	3976	GCCTGCACTTACGGCTATCTCGCC
	3977	TTGGCGTGGCGATTACCTGTTATT
	3978	TTTGCGGCTGAAGTTTACAGGGTG
	3979	CACTTAAGGGGCTGACCGAGCAAC
:0	3980	AGAAAACGTCAATCCGCCACCTTT
	3981	AACAAAACGGCGCTCCAACAAACG
	3982	GCCTCAATATCTGGTTGCCGCCTG
	3983	TTCCACAGTCAATGATGGGCGTGC
	3984	GATTCCCAGTCTACCCGCGAGCAT
<u>?</u> 5	3985	AGGCCAATTACGACCCTGTCACGG
	3986	CATGCGAACGTTCCGAGGAGACGG
	3987	CACACGCGATGGGTTGTGTGACGC
	3988	TCCGGTATTGCGCAGGAACCATAG
,	3989	AAGATTAGGTGTGCCCGCCTCAGG
30	3990	TCGTTACGCCCGACTCGACGATG
•	3991	ACTAAAATCGCCAGGTTGCTCCCT
	3992	AGGATGGCCACGCCGAATCAAAGT
	3993	TGATGAAGCAGCTCATCGCTGGCG
	3994	CCCCGATGGGTCTTTGTTGGACTC
35	3995	ACACGAGGGCTGCTGGTGAGGGCT
	3996	TGGTCACCAATTTGATGATCCGAG
	3997	AAGGCCGCTTGCATGCGACAAATT
• .	3998	CCAGTGTTCGTTCATCGGTGGCGT
	3999	CCGACCGCTACATAGGTGTGCGAA
40	4000	TGTTGAAGCCGTTCCCAGATGACA

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## TABLE 2

	Seq. ID No.	Decoder Sequence (5'-3')	Probe Sequence (5'-3')
	1	TTCGCCGTCGTGTAGGCTTTTCAA	TTGAAAAGCCTACACGACGGCGAA
	2	TTCGAAGCGCACGTCCCTTTTCAA	TTGAAAAGGGACGTGCGCTTCGAA
5	3	AACGCGTGGGGAATGGGACATCAA	TTGATGTCCCATTCCCCACGCGTT
	4	CCGTCGCATACCGGCTACGATCAA	TTGATCGTAGCCGGTATGCGACGG
	5	ATGGCCGTGCTGGGGACAAGTCAA	TTGACTTGTCCCCAGCACGCCAT
	6	TTGCAACGGGCTGGTCAACGTCAA	TTGACGTTGACCAGCCCGTTGCAA
	7	CGCATAGGTTGCCGATTTCGTCAA	TTGACGAAATCGGCAACCTATGCG
10	8	CCGTTTGCGGTCGTCCTTGCTCAA	TTGAGCAAGGACGACCGCAAACGG
	9	TTCGCTTTCGTGGCTGCACTTCAA	TTGAAGTGCAGCCACGAAAGCGAA
	10	GTCCAACGCGCAACTCCGATTCAA	TTGAATCGGAGTTGCGCGTTGGAC
	11	TTGCCGCACCGTCGTCATCTCAA	TTGAGATGACGGACGGTGCGGCAA
	_ 12	CATCGTCCCTTTCGATGGGATCAA	TTGATCCCATCGAAAGGGACGATG
15	13	GCACGGGAGCTGACGACGTGTCAA	TTGACACGTCGTCAGCTCCCGTGC
	14	AGACGCACCGCAACAGGCTGTCAA	TTGACAGCCTGTTGCGGTGCGTCT
	15	CGTGTAGGGGTCCCGTGCTGTCAA	TTGACAGCACGGGACCCCTACACG
	16	CATCGCTGCAAGTACCGCACTCAA	TTGAGTGCGGTACTTGCAGCGATG
	17	GGCTGGTTCGGCCCGAAAGCTTAG	CTAAGCTTTCGGGCCGAACCAGCC
20	18	GTTCCCAGTGAAGCTGCGATCTGG	CCAGATCGCAGCTTCACTGGGAAC
	19	TACTTGGCATGGAATCCCTTACGC	GCGTAAGGGATTCCATGCCAAGTA
	20	ACTAGCATATTTCAGGGCACCGGC	GCCGGTGCCCTGAAATATGCTAGT
	21	GAACGGTCAATGAACCCGCTGTGA	TCACAGCGGGTTCATTGACCGTTC
	22	GCGGCCTTGGTTCAATATGAATCG	CGATTCATATTGAACCAAGGCCGC
25	23	GATCGTTAGAGGGACCTTGCCCGA	TCGGGCAAGGTCCCTCTAACGATC
	24	TGGACCTAGTCCGGCAGTGACGAA	TTCGTCACTGCCGGACTAGGTCCA
	25	ATAAACTACCCAGGACGGGCGGAA	TTCCGCCCGTCCTGGGTAGTTTAT
	26	CATCGGTTCGCGCCAATCCAGATA	TATCTGGATTGGCGCGAACCGATG
	27	GTCGGGCATAGAGCCGACCACCCT	AGGGTGGTCGGCTCTATGCCCGAC
30	28	CTTGGGTCATGATTCACCGTGCTA	TAGCACGGTGAATCATGACCCAAG
	29	TGCCTAACGTGCTAATCAGCAGCG	CGCTGCTGATTAGCACGTTAGGCA
	30	CGCATGTTGGAGCATATGCCCTGA	TCAGGGCATATGCTCCAACATGCG
	31	AĢCCACTGCATCAGTGCTGTTCAA	TTGAACAGCACTGATGCAGTGGCT
	32	GGTTGTTTTGAGGCGTCCCACACT	AGTGTGGGACGCCTCAAAACAACC
<b>3</b> 5	33	TCGACCAAGAGCAAGGGCGGACCA	TGGTCCGCCCTTGCTCTTGGTCGA
	34	GACATCGCTATTGCGCATGGATCA	TGATCCATGCGCAATAGCGATGTC
	35	GAAATACGAAGTCTGCGGGAGTCG	CGACTCCCGCAGACTTCGTATTTC
	36	TGTCATGAATGATTGATCGCGCGA	TCGCGCGATCAATCATTCATGACA
	37	ATATCGGGATTCGTTCCCGGTGAA	TTCACCGGGAACGAATCCCGATAT

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	38	GCGAGCGTACCGAAGGGCCTAGAA	TTCTAGGCCCTTCGGTACGCTCGC
	39	TTACCGGCAGCGGACTTCCGAATT	AATTCGGAAGTCCGCTGCCGGTAA
	40	GTAATCGAGAGCTGCGCGCCGTCT	AGACGGCGCGCAGCTCTCGATTAC
	41	CCTGTTAGCGTAGGCGAGTCGATC	GATCGACTCGCCTACGCTAACAGG
5	42	TAGCGGACCGGCAGAATGAGTTCC	GGAACTCATTCTGCCGGTCCGCTA
	43	GGTACATGCACTACGCGCACTCGG	CCGAGTGCGCGTAGTGCATGTACC
	44	AATTCATCTCGGACTCCCGCGGTA	TACCGCGGGAGTCCGAGATGAATT
	45	GCCAAATCTGGATTGGCAGGAATG	CATTCCTGCCAATCCAGATTTGGC
	46	TGCATTTTCGGTTGAGGCACATCC	GGATGTGCCTCAACCGAAAATGCA
10	47	CCGCTCAATTCACCATGCTTCGCT	AGCGAAGCATGGTGAATTGAGCGG
	48	CTCGGAAAGGTGCAACTTTGGTGT	ACACCAAAGTTGCACCTTTCCGAG
	49	AATTCGACCAGCAGAACGTCCCAT	ATGGGACGTTCTGCTGGTCGAATT
	50	GCCAGAGTCTCAACCTCACGGGAT	ATCCCGTGAGGTTGAGACTCTGGC
	51	CCAACAACTGGAACGGGAACCCGC	GCGGGTTCCCGTTCCAGTTGTTGG
15	52	GAGAACTGATCGCTGAGGGGCATG	CATGCCCCTCAGCGATCAGTTCTC
	53	GGCACACTAGACTTGTGGCACCGA	TCGGTGCCACAAGTCTAGTGTGCC
	54	TCACATCCAAATATGGTCCGCGAA	TTCGCGGACCATATTTGGATGTGA
	· <b>5</b> 5	GTCTGCCGGTGTGACCGCTTCATT	AATGAAGCGGTCACACCGGCAGAC
	56	CATCGCAGAGCATAAACACCCTCA	TGAGGGTGTTTATGCTCTGCGATG
:0	57	GTTGGTATCTATGGCAGAGGCGGA	TCCGCCTCTGCCATAGATACCAAC
	58	ACGAGGTGCCGCTGAGGTTCCATT	AATGGAACCTCAGCGGCACCTCGT
	59	GGAATGAGTGGACCCAGGCACATT	AATGTGCCTGGGTCCACTCATTCC
	60	TGTCAATATGCGTCCGTGTCGTCT	AGACGACACGGACGCATATTGACA
	61	TGATGAGCCTCAGGGTACGAGGCA	TGCCTCGTACCCTGAGGCTCATCA
<b>!</b> 5	62	CACCGCGGTGTTCCTACAGAATGA	TCATTCTGTAGGAACACCGCGGTG
	63	TTGTTGCCAATGGTGTCCGCTCGG	CCGAGCGGACACCATTGGCAACAA
	64	TTAACCTGCGTCTGCCCCTTTCCT	AGGAAAGGGGCAGACGCAGGTTAA
	65	AGGCGCGTTCCTGCCTTAGTGACG	CGTCACTAAGGCAGGAACGCGCCT
	66	TAGGGCGATGGCACGAAGCTTCAA	TTGAAGCTTCGTGCCATCGCCCTA
;0	67	TGCATAGAGCCAAAGTCGGCGATG	CATCGCCGACTTTGGCTCTATGCA
	68	TTGAGAGGCAGGTGGCCACACGGA	TCCGTGTGGCCACCTGCCTCTCAA
	69	TCCGCATTGTGAGAAAAAACGAGC	GCTCGTTTTTTCTCACAATGCGGA
	70	GGCGGTTTCCGTAGCTATAGGTGC	GCACCTATAGCTACGGAAACCGCC
ļ	71	GGTGAAAATTTCGTAGCCACGGGC	GCCCGTGGCTACGAAATTTTCACC
:5	72	CCGACGGAGGATGAAGACAATCAC	GTGATTGTCTTCATCCTCCGTCGG
	73	CCAGTTTGGCCCAATTCGCCAAAA	TTTTGGCGAATTGGGCCAAACTGG
	74	GGATCTATTAGGCCGTGCGCACAG	CTGTGCGCACGGCCTAATAGATCC
	75	CGGATGTCACCGTTTGGACTTTCA	TGAAAGTCCAAACGGTGACATCCG
	76	ATCGCAAATCCTGCTCGTCCCTAA	TTAGGGACGAGCAGGATTTGCGAT
0	77	CAGGGCATGCAATAATCGAGGTTC	GAACCTCGATTATTGCATGCCCTG
l	78	CATGCGTTGATATATGGGCCCAAG	CTTGGGCCCATATATCAACGCATG
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	79	CAGCTGCAGCTTGTGACCAACCAC	GTGGTTGGTCACAAGCTGCAGCTG
	80	TTGTATGTCTGCCGACCGGCGACC	GGTCGCCGGTCGGCAGACATACAA
	81	GATGGCGCCCGTTGATAGGTATGG	CCATACCTATCAACGGGCGCCATC
	82	ATGAGAATCGCCGGCAATCTGCTA	TAGCAGATTGCCGGCGATTCTCAT
5	83	ATTTGCACTGACCGCAGGCTCGTG	CACGAGCCTGCGGTCAGTGCAAAT
	84	CAGGGAGAACGGTTAAGTTCCCGT	ACGGGAACTTAACCGTTCTCCCTG
	85	AGGCCGCCGATCGAGGAGTTTGGT	ACCAAACTCCTCGATCGCCGGCCT
	86	ACACGGTGGTCTCTGATAGCGACC	GGTCGCTATCAGAGACCACCGTGT
	87	GTGCAACGCCGAGGACTTCCATCA	TGATGGAAGTCCTCGGCGTTGCAC
10	88	TCGGTGCCTGATAGCCATTCCGAT	ATCGGAATGGCTATCAGGCACCGA
	89	TGAAATACCACACAGCCAATTGGC	GCCAATTGGCTGTGTGGTATTTCA
	90	GCATCGTGTACATGACTGCCGCGA	TCGCGGCAGTCATGTACACGATGC
	91	CAGTGTTCTAACGGCGCGCGTGAA	TTCACGCGCGCCGTTAGAACACTG
	92	CGCTTGCAACGTTGCACCTACTCT	AGAGTAGGTGCAACGTTGCAAGCG
15	93	CGAAAAACTAGTGGGCTCGCCGCG	CGCGGCGAGCCCACTAGTTTTCG
	94	CTTTCAGGGGAACTGCCGGAGTCG	CGACTCCGGCAGTTCCCCTGAAAG
	95	TTGTGGCCTTCTTGTAAAGGCACG	CGTGCCTTTACAAGAAGGCCACAA
	96	TCCACGAACGGCGACCCGTTGTCT	AGACAACGGGTCGCCGTTCGTGGA
e.	97	CGACCTTGCACGAAACCTAACGAG	CTCGTTAGGTTTCGTGCAAGGTCG
20	98	GTGCAGCTTCACGAGCCAGCCTGA	TCAGGCTGGCTCGTGAAGCTGCAC
	99	CGCTTTCGTGCGAATAGACGATGA	TCATCGTCTATTCGCACGAAAGCG
	100	TGCGCTTACAGGCTCCTAGTGGTC	GACCACTAGGAGCCTGTAAGCGCA
	101	CACGCGCTTAGTCGCGATCGCATA	TATGCGATCGCGACTAAGCGCGTG
	102	CGGAGGAGGAGCTAGCCTTCGA	TCGAAGGCTAGCTCCCTCCG
25	103	GCATCCGGCCTGTTGATGACGCCT	AGGCGTCATCAACAGGCCGGATGC
	104	AGGCCAATCGATCTTATTGCCGAG	CTCGGCAATAAGATCGATTGGCCT
	105	CCTTCCAATGATTGCATACGCCCA	TGGGCGTATGCAATCATTGGAAGG
	106	AACACTTGATCAGGCGGGTCGTCT	AGACGACCCGCCTGATCAAGTGTT
	107	TGGAATCAAGGCCGTAAAGGACAG	CTGTCCTTTACGGCCTTGATTCCA
30	108	GCTCCCGTAACCTGTCCACCAGTG	CACTGGTGGACAGGTTACGGGAGC
	109	AGTGGTGAATGGCCGCTACCCTGA	TCAGGGTAGCGGCCATTCACCACT
	110	TGTTGAAGCGAGCTAAAACGGCCA	TGGCCGTTTTAGCTCGCTTCAACA
	111	CAGCGCTCCAGAATTGACAGCAAT	ATTGCTGTCAATTCTGGAGCGCTG
	112	AAGGTGGTGCCATTCATTTGGCTA	TAGCCAAATGAATGGCACCACCTT
35	113	CGTTAAACCGCAATCCGTTCGGCT	AGCCGAACGGATTGCGGTTTAACG
,	114	CACGAGATACCGGCGTAAGGGTGG	CCACCCTTACGCCGGTATCTCGTG
	115	CTACGGCAAACGTGTGGAATGGGT	ACCCATTCCACACGTTTGCCGTAG
	116	GTAGGGCGATGACGGCGAACTAC	GTAGTTCGCCCGTCATCGCCCTAC
	117	AATCGACCTCCGCACACATTCGCA	TGCGAATGTGTGCGGAGGTCGATT
40	118	GAGTCAGCATGGCGGCGGAGATTC	GAATCTCCGCCGCCATGCTGACTC
	119	AGATAAAGACGCTGGCAACACGGG	CCCGTGTTGCCAGCGTCTTTATCT

	120	GGTACCTCAACGCGAACCACTTGT	ACAAGTGGTTCGCGTTGAGGTACC
	121	AAGCGATGGCTACCCAAGAGCGAT	ATCGCTCTTGGGTAGCCATCGCTT
	122	AGAGCTTATGCAGAACCAGGCGCC	GGCGCCTGGTTCTGCATAAGCTCT
	123	ATCGGTCTCACGCAGGGTTGGATA	TATCCAACCCTGCGTGAGACCGAT
5	124	TAGGTTGCCCGCCAGAAGAAACAT	ATGTTTCTTCTGGCGGGCAACCTA
	125	CGGTGCTGTTGCAAAAGCCTGTAG	CTACAGGCTTTTGCAACAGCACCG
	126	TGATGAAAGTTTGCGGCAGGACAC	GTGTCCTGCCGCAAACTTTCATCA
	127	GTTGAGTGCAGGATAG	CTATCGCTGCATCCTGCACTCAAC
	128	AACATTGCGCGGTCCACCAGGGTT	AACCCTGGTGGACCGCGCAATGTT
10	129	GGGCAGTTAGAGAGGGCCAGAAGT	ACTTCTGGCCCTCTCTAACTGCCC
	130	TCGAGCTGGTCCCCGTGAACGTGT	ACACGTTCACGGGGACCAGCTCGA
ĺ	131	GTCTTGGGGGCCGCTTAGTGAAAA	TTTTCACTAAGCGGCCCCCAAGAC
	132	ACTGTTGGCTTGCTCATGTCCA	TGGACATGAGAGCAAGCCAACAGT
	133	AGGACCATTCGGAAGGCGAAGATA	TATCTTCGCCTTCCGAATGGTCCT
15	134	CTTGGGAGGCATCCGCTATAAGGA	TCCTTATAGCGGATGCCTCCCAAG
	135	AATAAACGGAACGCACCGCTACAG	CTGTAGCGGTGCGTTCCGTTTATT
	136	TTGTACGTGCGGTCCCCATAAGCA	TGCTTATGGGGACCGCACGTACAA
	137 .	CGCACCAAACTGAGTTTCCCAGAC	GTCTGGGAAACTCAGTTTGGTGCG
	138	ACCTGATCGTTCCCCTATTGGGAA	TTCCCAATAGGGGAACGATCAGGT
20	139	GGAACAGAGGCGAGGGGACTGAGC	GCTCAGTCCCCTCGCCTCTGTTCC
	140	CCCTGCCTTGGCGTGTCGGCTTAT	ATAAGCCGACACGCCAAGGCAGGG
	_141	ACTCTGACACGCCAACTCCGGAAG	CTTCCGGAGTTGGCGTGTCAGAGT
	142	CTGACGGTTTTCATTCGGCGTGCC	GGCACGCCGAATGAAAACCGTCAG
	143	TGCGGTGGTTCATTGGAGCTGGCC	GGCCAGCTCCAATGAACCACCGCA
25	144	GCATGGCCAACTAGTGACTCGCAA	TTGCGAGTCACTAGTTGGCCATGC
	145	AGGCCGTAAAGCGAATCTCACCTG	CAGGTGAGATTCGCTTTACGGCCT
	146	CGAATATTATGCCGAGAATCCGCG	CGCGGATTCTCGGCATAATATTCG
	147	ACAGACGAGCTCCCAACCACATGA	TCATGTGGTTGGGAGCTCGTCTGT
	148	GGACGGTTTGTGCTGGATTGTCTG	CAGACAATCCAGCACAAACCGTCC
30	149	AAAGGCTATTGAGTTGGTTGGGCG	CGCCCAACCAACTCAATAGCCTTT
	150	GATGGCCTATTCGGAGATCGGGCC	GGCCCGATCTCCGAATAGGCCATC
	151	GATCCAGTAGGCAGCTTCATCCCA	TGGGATGAAGCTGCCTACTGGATC
	152	AATAACTCGCGCGGGTATGCTTCT	AGAAGCATACCCGCGCGAGTTATT
	153	GGAGGAGGTTTGTCTCGGAAAGCA	TGCTTTCCGAGACAAACCTCCTCC
35	154	CTTTGGTATGGCACATGCTGCCCG	CGGGCAGCATGTGCCATACCAAAG
	155	AGAAAGGCTCGAGCAACGGGAACT	AGTTCCCGTTGCTCGAGCCTTTCT
	156	AATCTACCGCACTGGTCCGCAAGT	ACTTGCGGACCAGTGCGGTAGATT
[	157	CGTGGCGGCCACAGTTTTTGGAGG	CCTCCAAAAACTGTGGCCGCCACG
	158	TTGCAGTTCAATCCATACGCACGT	ACGTGCGTATGGATTGAACTGCAA
40	159	GGCCCAAAGCCCCAGACCATTTTA	TAAAATGGTCTGGGGCTTTGGGCC
	160	CGCCTGTCTTTGTCTCCGGACAAT	ATTGTCCGGAGACAAGACAGGCG

	161	TGAGGCAACAGGGGCCAAAAACTA	TAGTTTTTGGCCCCTGTTGCCTCA
	162	AGCGGAAGTAGTCCTCGGCTCGTC	GACGAGCCGAGGACTACTTCCGCT
	163	GGCCCAAGGCTTAGAGATAGTGG	CCACTATCTCTAAGCCTTGGGGCC
	164	GCACGTGAAGTTTAACCGCGATTC	GAATCGCGGTTAAACTTCACGTGC
5	165	AGCGGCAGAAACGTTCCTTGACGG	CCGTCAAGGAACGTTTCTGCCGCT
J	166	TCGTCGAGCAGACGAGATTGCACG	CGTGCAATCTCGTCTGCTCGACGA
	167	TCTTTGCCGCGTAACTGACTGCTT	AAGCAGTCAGTTACGCGGCAAAGA
	168	TTTATGTGCCAAGGGGTTAACCGA	
	169		TCGGTTAACCCCTTGGCACATAAA
10	170	TGTTACTGTGGTTCACGGCAGTCC	GGACTGCCGTGAACCACAGTAACA
10		CGCGCCTCGCTAGACCTTTTATTG	CAATAAAAGGTCTAGCGAGGCGCG
	171	ACAAATGCGTGAGAGCTCCCAACT	AGTTGGGAGCTCTCACGCATTTGT
	172	CGCGCAGATTATAGACCCGAATGT	ACATTCGGGTCTATAATCTGCGCG
	173	CAAATAACGCCGCTGAATCGGCGT	ACGCCGATTCAGCGGCGTTATTTG
45	174	CCTTCGTGCATCGGTGATGATGTT	AACATCATCACCGATGCACGAAGG
15	175	TGAACACGAGCAACACTCCAACGC	GCGTTGGAGTGTTGCTCGTGTTCA
	176	CAGCAGATCCTTCGTAGCGGTCGT	ACGACCGCTACGAAGGATCTGCTG
	177	GGAACCTGGTGAGTTGTGCCTCAT	ATGAGGCACAACTCACCAGGTTCC
	178	TCATAAGCGACAATCGCGGGCTTA	TAAGCCCGCGATTGTCGCTTATGA
	179	CCCAACGTCACTGAAGCTCACAGT	ACTGTGAGCTTCAGTGACGTTGGG
20	180	TGTCAGAGCCCGCGACTCAGACGG	CCGTCTGAGTCGCGGGCTCTGACA
	181	TACACGAAGCCTCTCCGTGGTCCA	TGGACCACGGAGAGGCTTCGTGTA
	182	CTCAGAAGTCCTCGGCGAACTGGG	CCCAGTTCGCCGAGGACTTCTGAG
	183	ATCCTTTTATCTACTCCGCGGCGA	TCGCCGCGGAGTAGATAAAAGGAT
	184	AGGCGTGCAGCAACAGGATAAACC	GGTTTATCCTGTTGCTGCACGCCT
25	185	ACTCTCGAGGGAGTCTCTGGCACA	TGTGCCAGAGACTCCCTCGAGAGT
	186	TTGCCAGGTCCATCGAGACCTGTT	AACAGGTGTCGATGGACCTGGCAA
	187	TCCACTATAACTGCGGGTCCGTGT	ACACGGACCCGCAGTTATAGTGGA
	188	GCCCAGTCGGCTCTAACAAGTTCG	CGAACTTGTTAGAGCCGACTGGGC
	189	CGGAACGGATAATCGGCGTCAGGT	ACCTGACGCCGATTATCCGTTCCG
30	190	TAAAATAAGCGCCTGGCGGAGGA	TCCTCCCGCCAGGCGCTTATTTTA
	191	GCGCACTCGTGAAACCTTTCTCGC	GCGAGAAAGGTTTCACGAGTGCGC
	192	AGTTTGCCAGGTACTGGCAAGTGC	GCACTTGCCAGTACCTGGCAAACT
	193	ACAACGAGGGATGTCCAGCGGCAT	ATGCCGCTGGACATCCCTCGTTGT
•	194	TTCGCAGCACCCGCTAGGTACAGT	ACTGTACCTAGCGGGTGCTGCGAA
35	195	TAACCCGATTTTTGCGACTCTGCC	GGCAGAGTCGCAAAAATCGGGTTA
!	196	CGTCGCATTGCAAGCGTAGGCTTG	CAAGCCTACGCTTGCAATGCGACG
:	197	GAGCTGACGTCACCATCAGAGGAA	TTCCTCTGATGGTGACGTCAGCTC
	198	GGAGGCTGGGGGTCGCGCTTAAGT	ACTTAAGCGCGACCCCAGCCTCC
	199	TTGTGGGAACCGCACTAGCTGGCT	AGCCAGCTAGTGCGGTTCCCACAA
40	200	CCCTCGCACTGTGTTCACCCTCTT	AAGAGGGTGAACACAGTGCGAGGG
	201	TCATTGACTCGAATCCGCACAACG	CGTTGTGCGGATTCGAGTCAATGA

	202	ACAGGGGTTGGCCTTCGTACGTAC	GTACGTACGAAGGCCAACCCCTGT
	203	AGGCCGTGCAACATCACACAGGAT	ATCCTGTGTGATGTTGCACGGCCT
	204	GGGCCGTGGTCACGTAATATTGGC	GCCAATATTACGTGACCACGGCCC
	205	GCGCGACATGAAACGACAAGGCC	GGCCTTGTCGTTTCATGTCCGCGC
5	206	CTTATTGGGTGCCGGTGTCGGATT	AATCCGACACCGGCACCCAATAAG
	207	GGGGCGGTTACCAAAAAATCCGAT	ATCGGATTTTTTGGTAACCGCCCC
	208	GCTAAAGCGTGCTCCGTAACTGCC	GGCAGTTACGGAGCACGCTTTAGC
	209	ATCTCATGCATCTCGGTTCGTCGT	ACGACGAACCGAGATGCATGAGAT
	210	ACGAAAAAGTGTGCGGATCCCCT	AGGGGATCCGCACACTTTTTCGT
10	211	CCAAGTACACCGCACGCATGTTTA	TAAACATGCGTGCGGTGTACTTGG
	212	ATCGTGCGTGGAGTGTCGCATCTA	TAGATGCGACACTCCACGCACGAT
	213	TCCAGATACCGCCCGAACTTTGA	TCAAAGTTCGGGGCGGTATCTGGA
	214	TCTGCTGGCAGCACGTGAAGTGGC	GCCACTTCACGTGCTGCCAGCAGA
	215	TTGAAATTGCTCTGCCGTCAGTCA	TGACTGACGGCAGAGCAATTTCAA
15	216	AGTCAGGCGAGATGTTCAGGCAGC	GCTGCCTGAACATCTCGCCTGACT
	217	ACAAGCCGACGTTAAGCCCGCCCA	TGGGCGGCTTAACGTCGGCTTGT
	218	CCCTAATGAGGCCAGTAACCTGCA	TGCAGGTTACTGGCCTCATTAGGG
	219	GTGAGACACACATCCCCTCCAATG	CATTGGAGGGGATGTGTCTCAC
	220	CGACGGATGCAGAGTTCAGTGGTC	GACCACTGAACTCTGCATCCGTCG
20	221	CCCGCATGCCTGGCGGTATTACAA	TTGTAATACCGCCAGGCATGCGGG
	222	TTAGCAAAGCGGCGCCGTTAGCAA	TTGCTAACGGCGCCGCTTTGCTAA
	223	CCCGACACGGGTCAGCGTAATAAT	ATTATTACGCTGACCCGTGTCGGG
	224	GCGACGGCCCTGAGGTATGTCGTC	GACGACATACCTCAGGGCCGTCGC
	225	CAAAAGTGTGTTCCCTTGCGCTTG	CAAGCGCAAGGGAACACACTTTTG
25	226	TCTCGAAGCACAGCCCGGTTATTG	CAATAACCGGGCTGTGCTTCGAGA
	227	ATGCTAACCGTTGGCCATGGAACT	AGTTCCATGGCCAACGGTTAGCAT
	228	CTTGCGGAGTGTTAGCCCAGCGGT	ACCGCTGGGCTAACACTCCGCAAG
	229	TGCTCCCTAGGCGCTCGGAGGAGT	ACTCCTCCGAGCGCCTAGGGAGCA
	230	CCAATGCCTTTGAGTAAGCGATGG	CCATCGCTTACTCAAAGGCATTGG
30	231	AGCAGATAACGTCCCAATGACGCC	GGCGTCATTGGGACGTTATCTGCT
	232	TTGACCATTACGTGTTGCGCCCAT	ATGGGCGCAACACGTAATGGTCAA
	233	TCGCGTATTTGCGGAATTCGTCTG	CAGACGAATTCCGCAAATACGCGA
	234	CTGCGTGTCAACAATGTCCCGCAG	CTGCGGGACATTGTTGACACGCAG
	235	TCTGGTGCCACGCAAGGTCCACAG	CTGTGGACCTTGCGTGGCACCAGA
35	236	CTCCGGGAGGTCACTTAATTGCGG	CCGCAATTAAGTGACCTCCCGGAG
	237	TTTTCGTGATTGCCCGGAGGAGGC	GCCTCCTCCGGGCAATCACGAAAA
	238	TCGGGATGTAGCTGGGGCTACCGG	CCGGTAGCCCCAGCTACATCCCGA
	239	CGAGCCAACGCAAACACGTCCTTG	CAAGGACGTGTTTGCGTTGGCTCG
	240	GCAAAGCCTTTGTGGGGCGGTAGT	ACTACCGCCCCACAAAGGCTTTGC
40	241	ATTCGACCGGAAATGAGGTCTTCG	CGAAGACCTCATTTCCGGTCGAAT
	242	TTCGCTTGCTGAGTTGCTCTGTTC	GAACAGAGCAACTCAGCAAGCGAA

Γ	243	CGCGTGAAGACCCCATTCCCGAGT	ACTCGGGAATGGGGTCTTCACGCG
ŀ	244	AACCGTATTCGCGGTCACTTGTGG	CCACAAGTGACCGCGAATACGGTT
.	245	GGGGCCAACCGTTTCGAGGCGTAT	ATACGCCTCGAAACGGTTGGCCCC
	246	TTCGGCTGGCAGTCCAAACGGCTT	AAGCCGTTTGGACTGCCAGCCGAA
5	247	GGGTGTGGTTAGAATGCACGGTTC	GAACCGTGCATTCTAACCACACCC
ļ	248	GCGAGGACCGAACTAGACAAACGG	CCGTTTGTCTAGTTCGGTCCTCGC
ļ	249	ACGCACGCGTGACCGAAGTTGCTG	CAGCAACTTCGGTCACGCGTGCGT
	250	TAAAAGGTCGCTTTGAAAGGGGGA	TCCCCCTTTCAAAGCGACCTTTTA
	251	TGCGATCGCTAACTGCTGGGACAA	TTGTCCCAGCAGTTAGCGATCGCA
10	252	GGAGGTATAAGCGGAGCGGCCTCA	TGAGGCCGCTCCGCTTATACCTCC
	253	ATGCTGACATGTCGTGCACCTCGT	ACGAGGTGCACGACATGTCAGCAT
j	254	TGTGGTTAAAGCGTCCGTTCAACG	CGTTGAACGGACGCTTTAACCACA
	255	CGTTCACACCGGCGTAAGCTGCGT	ACGCAGCTTACGCCGGTGTGAACG
	256	CCTATCCCGGCGAGAACTTCTGTG	CACAGAAGTTCTCGCCGGGATAGG
15	257	GTCTGCACTCACGCAGCGGAGGGA	TCCCTCCGCTGCGTGAGTGCAGAC
	258	GCACGAGTTGGTGCTCGGCAGATT	AATCTGCCGAGCACCAACTCGTGC
	259	AACGTCGCACGACACGTTCGTC	GACGAACGTGTGTCGTGCGACGTT
	260	ATGCGCGCTTATCCTAGCATGGTC	GACCATGCTAGGATAAGCGCGCAT
	261	TCACGTTTTCGTCTCGACATGAGG	CCTCATGTCGAGACGAAAACGTGA
20	262	TGTGCCTCATCCTTAGGATACGGC	GCCGTATCCTAAGGATGAGGCACA
	263	AGGTGGTGTGGGTCAACCGCTTTA	TAAAGCGGTTGACCCACACCACCT
	264	CTGGATCGAAGGGACTGCAAGCTC	GAGCTTGCAGTCCCTTCGATCCAG
	265	TAGATCAACTCGCGTACGCATGGA	TCCATGCGTACGCGAGTTGATCTA
	266	GATCCTGCGGAGAAGAGAGTGCAG	CTGCACTCTCTCTCCGCAGGATC
25	267	TACGTGTGGAGATGCCCCGAACCG	CGGTTCGGGGCATCTCCACACGTA
	268	GCGCTATGTCAATCGTGGGCGTAG	CTACGCCGACGATTGACATAGCGC
	269	AGCGAGGTTTCTAGCGTCGACACC	GGTGTCGACGCTAGAAACCTCGCT
	270	ACCCAGGTTTTGCCGTTGTGGAAT	ATTCCACAACGGCAAAACCTGGGT
	271	CCCTGTTAACGGCTGCGTAGTCTC	GAGACTACGCAGCCGTTAACAGGG
30	272	AGGCCGATTTCACCCGCCAATTGC	GCAATTGGCGGGTGAAATCGGCCT
	273	GAGCCCTCACTCCTTGCCCTTTGA	TCAAAGGGCAAGGAGTGAGGGCTC
	274	GGGTGGACATCCGCCTCGCAGTCA	TGACTGCGAGGCGGATGTCCACCC
	275	GATGGCTGAGAACCGTGCTACGAT	ATCGTAGCACGGTTCTCAGCCATC
	276	TCGACGTTAGGAGTGCTGCCAGAA	TTCTGGCAGCACTCCTAACGTCGA
35	277	CGAATGGGTCTGGACCTTGCATAG	CTATGCAAGGTCCAGACCCATTCG
	278	GTGCACCAGACATTCGAACTCGGA	TCCGAGTTCGAATGTCTGGTGCAC
	279	AGAGGCCCCGTATATCCCATCCAT	ATGGATGGGATATACGGGGCCTCT
	280	AACGCCTGTTCAGAGCATCAGCGG	CCGCTGATGCTCTGAACAGGCGTT
	281	AAGGCTCAACACGCCTATGTGCGC	GCGCACATAGGCGTGTTGAGCCTT
40	282	AGTCCGTGTTGCCAGATTGGCTCG	CGAGCCAATCTGGCAACACGGACT
	283	ATGTCCCATGTAAAGACGCGTGTG	CACACGCGTCTTTACATGGGACAT

	284	ATGGAGTCTGCTCACGCCCAAAGG	CCTTTGGGCGTGAGCAGACTCCAT
	285	CGGCCTCCAACAAGGAGCACTAAC	GTTAGTGCTCCTTGTTGGAGGCCG
Ī	286	CAGAGCCGTGGCAACATTGCGAGC	GCTCGCAATGTTGCCACGGCTCTG
	287	TCATTTGAATGAGGTGCGCACCGG	CCGGTGCGCACCTCATTCAAATGA
5	288	GACGTACCGGAAGCGCCGTATAAA	TTTATACGGCGCTTCCGGTACGTC
Ī	289	ATGCGAGCAATGGGATCCGGATTC	GAATCCGGATCCCATTGCTCGCAT
	290	AGAGTGAGGCCTCCCTGACCAGTG	CACTGGTCAGGGAGGCCTCACTCT
	291	CGCACCGTAAGTAGATTTGCCCGC	GCGGGCAAATCTACTTACGGTGCG
	292	TGAACCTTTGAGCACGTCGTGCGC	GCGCACGACGTGCTCAAAGGTTCA
10	293	TCCGCCTTTTTGGTTACCTCGAAG	CTTCGAGGTAACCAAAAAGGCGGA
	294	GAACGCCAACGGCACTAACACATC	GATGTGTTAGTGCCGTTGGCGTTC
j	295	CCGACAGCAGCCAAGACGTCCCAG	CTGGGACGTCTTGGCTGCTGTCGG
	296	CATAAAAAACCTGGGGCTCTGCG	CGCAGAGCCCCAGGTTTTTTATG
	297	TGCCAACTGTGCAGACCGGACTTA	TAAGTCCGGTCTGCACAGTTGGCA
15	298	GGCGAAAGAGCGAAACCGGCTCGT	ACGAGCCGGTTTCGCTCTTTCGCC
	299	GGGATGCGTATTTTAGCGAACACG	CGTGTTCGCTAAAATACGCATCCC
	300	TGGGATTCAGCGACCAGTACGCGA	TCGCGTACTGGTCGCTGAATCCCA
	301	CCCGATATTCGCCCGGCCTATTCG	CGAATAGGCCGGGCGAATATCGGG
	. 302	CGAGAAGATGCCTCACGCAACCAA	TTGGTTGCGTGAGGCATCTTCTCG
20	303	AACCTTGACCCGTGGATGACGCTA	TAGCGTCATCCACGGGTCAAGGTT
	304	GGCTAGACGATGGATACCCGTGCC	GGCACGGGTATCCATCGTCTAGCC
	305	GCCTCTTCTCGACGATGCGATTTT	AAAATCGCATCGTCGAGAAGAGGC
	306	GCTTCCGGATGAACGGGATGGTTG	CAACCATCCCGTTCATCCGGAAGC
	307	CCCTCCATGTTCTTCGAACGGTTT	AAACCGTTCGAAGAACATGGAGGG
25	308	TTGATGGGCGGCAATGCTCTTGCT	AGCAAGAGCATTGCCGCCCATCAA
	309	ATTGTGAGATGCGCCAAATTCCCC	GGGGAATITGGCGCATCTCACAAT
	310	TCAGCACAGCCAGACGGTCAACTT	AAGTTGACCGTCTGGCTGTGCTGA
	311	ACTCCACTCCTCGGTGGCAAACTA	TAGTTTGCCACCGAGGAGTGGAGT
	312	TCTGGGCATGCCTGGACGGAGACG	CGTCTCCGTCCAGGCATGCCCAGA
30	313	TCTCAACTCCGGTACGACGAAACA	TGTTTCGTCGTACCGGAGTTGAGA
	314	TTGCGTGGTCAAAGGCGCAACGTG	CACGTTGCGCCTTTGACCACGCAA
	315	AGACAGCGATCCGCGGCTCATGAT	ATCATGAGCCGCGGATCGCTGTCT
	316	CGCGTCTCTAACTGAGAGCAGCCA	TGGCTGCTCTCAGTTAGAGACGCG
	317	AGGCGCACATGTACGGACATTCAG	CTGAATGTCCGTACATGTGCGCCT
35	318	GATGAGTGGCACGTCGGTGTGTAA	TTACACACCGACGTGCCACTCATC
	319	TGATCCATATTGTCGGACGTTGCG	CGCAACGTCCGACAATATGGATCA
	320	ACCTGCCGGGAGTTCATAGGCTAG	CTAGCCTATGAACTCCCGGCAGGT
	321	AGCATTGGCGTTTTTCCGCAACGA	TCGTTGCGGAAAAACGCCAATGCT
	322	GGTAATATTCAGCGCGACCGCTCA	TGAGCGGTCGCGCTGAATATTACC
40	323	ATAGCGTACGACGAGGTGACGCGC	GCGCGTCACCTCGTCGTACGCTAT
	324	TAGGTCACGATGCGTTTGACGCTA	TAGCGTCAAACGCATCGTGACCTA

	325	ACTGCCCGTACCTCTGGTTCTGGC	GCCAGAACCAGAGGTACGGGCAGT
	326	CCTTTGGCCTGAAGTTGTCGTAGC	GCTACGACAACTTCAGGCCAAAGG
	327	GTGCCCACGAGCGTATCGTTGTA	TACAACGATACGCTCGTGGGGCAC
	328	AGGCGCTACGTGGGCCTGGAGCAA	TTGCTCCAGGCCCACGTAGCGCCT
5	329	GGGTGCTACCATTGCATTAGTCCG	CGGACTAATGCAATGGTAGCACCC
	330	ACCACGCGCGTACGTGTAACCGAG	CTCGGTTACACGTACGCGCGTGGT
	331	CCATGATGCATTGGGTGCATTTAG	CTAAATGCACCCAATGCATCATGG
	332	GGTCCGGCCCTACGAAACGTTCGA	TCGAACGTTTCGTAGGGCCGGACC
	333	CCGTGTGGCTGGAGATTCGTGTGA	TCACACGAATCTCCAGCCACACGG
10	334	GTTAGGGCGACGCATATTGGCACA	TGTGCCAATATGCGTCGCCCTAAC
	335	GGGTCAGTCAGGTGCGTTAGGATC	GATCCTAACGCACCTGACTGACCC
	336	GCCGTGAAGTCGAATGCAGATCGA	TCGATCTGCATTCGACTTCACGGC
	337	GCCACCACCAGTGCATTCAGGTA	TACCTGAATGCACTGGGTGGTGGC
	338	GAGCTTAGTTTGCGGTCATCGGGC	GCCCGATGACCGCAAACTAAGCTC
15	339	TGTTTGCCGCCATTAGGGAGTAAC	GTTACTCCCTAATGGCGGCAAACA
	340	GCTCCGCTGGATGTGCCGGTTTAG	CTAAACCGGCACATCCAGCGGAGC
	341	CGGTAGCATGCGAGATCCCTGTTA	TAACAGGGATCTCGCATGCTACCG
	342	CTACGCTCTACCAGTTGCCTGCGA	TCGCAGGCAACTGGTAGAGCGTAG
	343	GTGCCTCCTGCTGTATTTGCCAAG	CTTGGCAAATACAGCAGGAGGCAC
20	344	TTGCGACTCGACTTGGACGAGTAG	CTACTCGTCCAAGTCGAGTCGCAA
	345	TCTGGGAGCTGTTTACTCCAGCCA	TGGCTGGAGTAAACAGCTCCCAGA
	346	TGCACGCGGAACTCCCTTTACCAT	ATGGTAAAGGGAGTTCCGCGTGCA
	347	TGGCAGCAAATGAATCGAAAGCAC	GTGCTTTCGATTCATTTGCTGCCA
	348	AACTGGTGACGCGGTACAGCGAAG	CTTCGCTGTACCGCGTCACCAGTT
25	349	AGACGATTACGCTGGACGCCGTCG	CGACGGCGTCCAGCGTAATCGTCT
	350	ATGCCCTCCTTCATGGAAAGGGTT	AACCCTTTECATGAAGGAGGGCAT
	351	ATTCTCGGAGCGTATGCGCCAGAA	TTCTGGCGCATACGCTCCGAGAAT
	352	ATAGCGGAGTTTGGGTACGCGAAC	GTTCGCGTACCCAAACTCCGCTAT
	353	ACCTACGCATACCGCTTGGCGAGG	CCTCGCCAAGCGGTATGCGTAGGT
30	354	GATTACCTGAATGGCCAAGCGAGC	GCTCGCTTGGCCATTCAGGTAATC
	355	CCTGTTAGCATCACGGCGCTTAGG	CCTAAGCGCCGTGATGCTAACAGG
	356	CGGAATGATGCGCTCGACAACGCT	AGCGTTGTCGAGCGCATCATTCCG
	357	TGAGAGAGGCGTTGGTTAAGGCAA	TTGCCTTAACCAACGCCTCTCTCA
	358	AAGCAGGCGAAGGGATACTCCTCG	CGAGGAGTATCCCTTCGCCTGCTT
35	359	TCACGACAGACGGGCCGAGATTAC	GTAATCTCGGCCCGTCTGTCGTGA
	360	AAGCAATTTGGCCTCGTTTTGTGA	TCACAAAACGAGGCCAAATTGCTT
	361	GCTGGTTGCGGTAGGATCGCATAT	ATATGCGATCCTACCGCAACCAGC
. [	362	TTGTGAATCCGTTCTGTCCCCGAC	GTCGGGACAGAACGGATTCACAA
	363	TGGGCTCCTCTGAGGCGAGATGGC	GCCATCTCGCCTCAGAGGAGCCCA
40	364	GGATAGAGTGAATCGACCGGCAAC	GTTGCCGGTCGATTCACTCTATCC
[	365	TGCACCGAACGTGCACGAGTAATT	AATTACTCGTGCACGTTCGGTGCA
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	366	GCCAGTATTCTCGGGTGTTGGACG	CGTCCAACACCCGAGAATACTGGC
	367	TCGCTACCTAAGACCGGGCCATAC	GTATGGCCCGGTCTTAGGTAGCGA
	368	TGGCATTGACGAGCAGCAGTCAGT	ACTGACTGCTGCTCAATGCCA
	369	CGCGTCCCAGCGCCCTTGGAGTAT	ATACTCCAAGGGCGCTGGGACGCG
5	370	ATGAAGCCTACCGGGCGACTTCGT	ACGAAGTCGCCCGGTAGGCTTCAT
	371	CCAGACAGATGGCCTGGAACCATG	CATGGTTCCAGGCCATCTGTCTGG
•	372	TGGCGTGGGACCATCTCAAAGCTA	TAGCTTTGAGATGGTCCCACGCCA
	373	CCGCATGGGAACACGTGTCAAGGT	ACCTTGACACGTGTTCCCATGCGG
	374	GCCCACTCGTCAGCTGGACGTAAT	ATTACGTCCAGCTGACGAGTGGGC
10	375	ATTACGGTCGTGATCCAGAAAGCG	CGCTTTCTGGATCACGACCGTAAT
	376	TGCGAGGTGAGCACCTACGAGAGA	TCTCTCGTAGGTGCTCACCTCGCA
	377	GGGCCGCATTCTTGATGTCCATTC	GAATGGACATCAAGAATGCGGCCC
	378	CCTCGGATGTGGGCTCTCGCCTAG	CTAGGCGAGAGCCCACATCCGAGG
•	379	TAGGCATGTTGGCGTGAGCGCTAT	ATAGCGCTCACGCCAACATGCCTA
15	380	CGATACGAACGAGGATGTCCGCCT	AGGCGGACATCCTCGTTCGTATCG
	381	TACGCCGGTTAGCACGGTGCGCTA	TAGCGCACCGTGCTAACCGGCGTA
	382	CATACGATGTCCGGGCCGTGTCGC	GCGACACGGCCCGGACATCGTATG
	383	ATCCGCAGTTGTATGGCGCGTTAT	ATAACGCGCCATACAACTGCGGAT
	384	GGGTAAGGGACAAAGATGGGATGG	CCATCCCATCTTTGTCCCTTACCC
20	385	ATTGGAGTGTTTTGGTGAATCCGC	GCGGATTCACCAAAACACTCCAAT
	386	GAACCGAGCCAACGTATGGACACG	CGTGTCCATACGTTGGCTCGGTTC
	387	GCCGTCAAGCTTAAGGTTTTGGGC	GCCCAAAACCTTAAGCTTGACGGC
	388	ACCTGCTTTTGGGTGGGTGATATG	CATATCACCCACCCAAAAGCAGGT
	389	AATCGTGGGCGCAGCAAACGTATA	TATACGTTTGCTGCGCCCACGATT
25	390	GTCGCCGGATTGCTCAGTATAAGC	GCTTATACTGAGCAATCCGGCGAC
	391	ACCCGTCGATGCTTCCTCCTCAGA	TCTGAGGAGGAAGCATCGACGGGT
	392	ATCCGGGTGGGCGATACAAGAGAT	ATCTCTTGTATCGCCCACCCGGAT
	393	TTCCGCATGAGTCAGCTTTGAAAA	TTTTCAAAGCTGACTCATGCGGAA
	394	GCAAAGTCCCACTGGCAAGCCGAT	ATCGGCTTGCCAGTGGGACTTTGC
30	395	CGACCTCGGCTTCATCGTACACAT	ATGTGTACGATGAAGCCGAGGTCG
	396	CTCATGAGCGCAGTTGTGCGTGAG	CTCACGCACAACTGCGCTCATGAG
	397	CAGATGAAGGATCCACGGCCGGAG	CTCCGGCCGTGGATCCTTCATCTG
	398	TCAAAGGCTCTTGGATACAGCCGT	ACGGCTGTATCCAAGAGCCTTTGA
	399	TCCGCTAATTTCCAATCAGGGCTC	GAGCCCTGATTGGAAATTAGCGGA
35	400	ACGCACGGCGCTTTTGCCTTAATG	CATTAAGGCAAAAGCGCCGTGCGT
	401	TGACAACGTCACAAGGAGCAGGAC	GTCCTGCTCCTTGTGACGTTGTCA
	402	CTTAGTTGGGGCGCGGTATCCAGA	TCTGGATACCGCGCCCCAACTAAG
	403	GCTCTAATGCCGTGGAGTCGGAAC	GTTCCGACTCCACGGCATTAGAGC
	404	CCGATTACAAATTGACTGACCGCA	TGCGGTCAGTCAATTTGTAATCGG
40	405	AGACGTACGTGAGCCTCCCGTGTC	GACACGGGAGGCTCACGTACGTCT
	406	AATGGAGCGATACGATCCAACGCA	TGCGTTGGATCGTATCGCTCCATT

	407	GGAGGCGCTGTACTGATAGGCGTA	TACGCCTATCAGTACAGCGCCTCC
	408	TGTTTTTGAATTGACCACACGGGA	TCCCGTGTGGTCAATTCAAAAACA
	409	CATGTCTGGATGCGCTCAATGAAG	CTTCATTGAGCGCATCCAGACATG
	410	GCCGCTAATCCGACACCCAGTTT	AAACTGGGTGTCGGATTAGCGGGC
5	411	CCATTGACAGGAGAGCCATGAGCC	GGCTCATGGCTCTCCTGTCAATGG
	412	GAATCACCGAATCACCGACTCGTT	AACGAGTCGGTGATTC
	413	AACCAGCCGCAGTAGCTTACGTCG	CGACGTAAGCTACTGCGGCTGGTT
	414	TTTTCTGAGGGACACGCGGGCGTT	AACGCCCGCGTGTCCCTCAGAAAA
[	415	GGTGCTCCGTTTGATCGATCCTCC	GGAGGATCGATCAAACGGAGCACC
10	416	CCGCTTAGGCCATACTCTGAGCCA	TGGCTCAGAGTATGGCCTAAGCGG
	417	TAAGACATACCGACGCCCTTGCCT	AGGCAAGGGCGTCGGTATGTCTTA
	418	GTTCCCGACGCCAGTCATTGAGAC	GTCTCAATGACTGGCGTCGGGAAC
	419	TAAAAGTTTCGCGGAGGTCGGGCT	AGCCCGACCTCCGCGAAACTTTTA
ļ	420	CGGTCCAGACGAGCTGAGTTCGGC	GCCGAACTCAGCTCGTCTGGACCG
15	421	CGGCGTAGCGGCTACGGACTTAAA	TTTAAGTCCGTAGCCGCTACGCCG
	422	GCTTGGATGCCCATGCGGCAAGGT	ACCTTGCCGCATGGGCATCCAAGC
	423	AGCGGGATCCCAGAGTTTCGAAAA	TTTTCGAAACTCTGGGATCCCGCT
	424	GAGCTTGAGAGCGAGGTCATCCTC	GAGGATGACCTCGCTCTCAAGCTC
	425	GCATCGGCCGTTTTGACCATATTC	GAATATGGTCAAAACGGCCGATGC
20	426	CATAGCGCTGCACGTTTCGACCGC	GCGGTCGAAACGTGCAGCGCTATG
	427	ACCCGACAACCACCAATTCAAAAA	TTTTGAATTGGTGGTTGTCGGGT
	428	GCGAACACTCATAAGAGCGCCCTG	CAGGGCGCTCTTATGAGTGTTCGC
	429	CCGCCGAGTGTAGAGAGACTCCGA	TCGGAGTCTCTCTACACTCGGCGG
	430	GACATCGGGAGCCGGAAACATGAG	CTCATGTTTCCGGCTCCCGATGTC
25	431	TCGTGTAGACTCGGCGACAGGCGT	ACGCCTGTCGCCGAGTCTACACGA
	432	ATGCGCATATACTGACTGCGCAGG	CCTGCGCAGTCAGTATATGCGCAT
	433	ACAAGCGAACCCGAGTTTTGATGA	TCATCAAAACTCGGGTTCGCTTGT
	434	GCATGAGACTCCGCGAAGACATGT	ACATGTCTTCGCGGAGTCTCATGC
	435	TCCTACATGTCGCGTCACGATCAC	GTGATCGTGACGCGACATGTAGGA
30	436	GACCGATCGCGAAGTCGTACACAT	ATGTGTACGACTTCGCGATCGGTC
	437	GTCGCCAGGACTGGGCCGATGTGA	TCACATCGGCCCAGTCCTGGCGAC
	438	ACCGATAAGACTTGCATCCGAACG	CGTTCGGATGCAAGTCTTATCGGT
	439	TCCATAACCAGTCCGAAGTGCCGG	CCGGCACTTCGGACTGGTTATGGA
	440	ACGCGCCCTGCATCTCGTATTTAA	TTAAATACGAGATGCAGGGCGCGT
35	441	AGACCGCATCAATTGGCGCGTACC	GGTACGCGCCAATTGATGCGGTCT
	442	AGAGGCTTGGCAAGTAGGGACCCT	AGGGTCCCTACTTGCCAAGCCTCT
	443	GCAATGGACGCCAGACGATACCGG	CCGGTATCGTCTGGCGTCCATTGC
	444	GCTGGACTTAGTCGTGTTCGGCGG	CCGCCGAACACGACTAAGTCCAGC
İ	445	AGGCATCGTGCCGGATTGCTCCCT	AGGGAGCAATCCGGCACGATGCCT
40	446	TGCGCATGTCGACGTTGAACAAAG	CTTTGTTCAACGTCGACATGCGCA
	447	TTCGGGTCACATCCGATGCCATAC	GTATGGCATCGGATGTGACCCGAA
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	448	ACCCATCGCCGGAAAGCGATGTTG	CAACATCGCTTTCCGGCGATGGGT
	449	AAGCGCTGACTCGGCTAAGAATCA	TGATTCTTAGCCGAGTCAGCGCTT
	450	ACTTCCAAGTCCTTGACCGTCCGA	TCGGACGGTCAAGGACTTGGAAGT
	451	TCTCAATATTCCCGTAGTCGCCCA	TGGGCGACTACGGGAATATTGAGA
5	452	AACAGTTCCTCTTTTTCCTGGCGC	GCGCCAGGAAAAAGAGGAACTGTT
	453	CGTCCTCCATGTTGTCACGAACAG	CTGTTCGTGACAACATGGAGGACG
	454	TGCGCAGACCTACCTGTCTTTGCT	AGCAAAGACAGGTAGGTCTGCGCA
	455	ATGGACGCTTCGCAGTCCTCCTT	AAGGAGGACTGCGAAGCCGTCCAT
Ī	456	TGAACGCTTTCTATGGGCCACGTA	TACGTGGCCCATAGAAAGCGTTCA
10	457	TGAACCCTGCCGCGAGCGATAACC	GGTTATCGCTCGCGGCAGGGTTCA
	458	GTTCTTGCGCGATGAATCAGGACC	GGTCCTGATTCATCGCGCAAGAAC
Ī	459	AGGGTACGTGTCGCAGCTTCGCGT	ACGCGAAGCTGCGACACGTACCCT
Ī	460	ACCCTTGCTCCGCCATGTCTCTCA	TGAGAGACATGGCGGAGCAAGGGT
	461	GGGACAAGGATTGAAGCTGGCGTC	GACGCCAGCTTCAATCCTTGTCCC
15	462	TGTCGTTGCTCCCGAGTACCATTG	CAATGGTACTCGGGAGCAACGACA
	463	GTTGTCCGAGACGTTTGTGTCAGC	GCTGACACAACGTCTCGGACAAC
	464	GCTGGTGAACACTCACGAACCGCT	AGCGGTTCGTGAGTGTTCACCAGC
	465	GCAGACAGGGCAAATCGGTGCAAA	TTTGCACCGATTTGCCCTGTCTGC
	466	CCCATCACAACGAGTGGCGACTTT	AAAGTCGCCACTCGTTGTGATGGG
20	467	GCTTCTACAGCTGGCGTGCTAGCG	CGCTAGCACGCCAGCTGTAGAAGC
	468	GAATGTGTGCCGACCATTCTAGCC	GGCTAGAATGGTCGGCACACATTC
	469	CCAGCGGAAGTTAGAGCTCTGTGG	CCACAGAGCTCTAACTTCCGCTGG
	470	TTTTTACCGACCACTCCATGTCGG	CCGACATGGAGTGGTCGGTAAAAA
	471	GCGGCTATGTGATGACGGCCTAGC	GCTAGGCCGTCATCACATAGCCGC
25	472	AGTACACGGGCGTGTTAGCGCTCC	GGAGCGCTAACACGCCCGTGTACT
	473	TCCTGTGTGGTGGCGCACTCCCAC	GTGGGAGTGCGCCACACACAGGA
	474	CCAACTAACCAATCGCGCGGATGA	TCATCCGCGCGATTGGTTAGTTGG
	475	AGTGAGTGACCAAGGCAGGAGCAA	TTGCTCCTGCCTTGGTCACTCACT
	476	CATCTTTCGCGGAGTTTATTGCGG	CCGCAATAAACTCCGCGAAAGATG
30	477	CTTCGTCCGGTTAGTGCGACAGCA	TGCTGTCGCACTAACCGGACGAAG
	478	CTCACGAAAACGTGGGCCCGAAAT	ATTTCGGGCCCACGTTTTCGTGAG
	479	CGCAGCAGCTGAACTCTAGCATTG	CAATGCTAGAGTTCAGCTGCTGCG
	480	AGGAGACATACGCCCAAATGGTGC	GCACCATTTGGGCGTATGTCTCCT
	481	ATTGAGAACTCGTGCGGGAGTTTG	CAAACTCCCGCACGAGTTCTCAAT
<b>3</b> 5	482	CTCTTTGTAGGCCCAGGAGGAGCA	TGCTCCTCCTGGGCCTACAAAGAG
	483	GCCGCAGGGTCGATAATTGGTCTA	TAGACCAATTATCGACCCTGCGGC
	484	AAACGCCGCCCTGAGACTATTGGG	CCCAATAGTCTCAGGGCGGCGTTT
	485	CTGAGTTGCCTGGAACGTTGGACT	AGTCCAACGTTCCAGGCAACTCAG
	486	CGGATGGGTTGCAGAGTATGGGAT	ATCCCATACTCTGCAACCCATCCG
40	487	CTGACCTTTGGGGGTTAGTGCGGT	ACCGCACTAACCCCCAAAGGTCAG
:	488	GGAAATGAGAACCTTACCCCAGCG	CGCTGGGGTAAGGTTCTCATTTCC

	489	AACGCATCGTCCGTCAACTCATCA	TGATGAGTTGACGGACGATGCGTT
	490	TGGAGAGAGACTTCGGCCATTGTT	AACAATGGCCGAAGTCTCTCCA
	491	TTGCGCTCATTGGATCTTGTCAGG	CCTGACAAGATCCAATGAGCGCAA
	492	AGCGCGTTAAAGCACGGCAACATT	AATGTTGCCGTGCTTTAACGCGCT
5	493	AGCCAGTAAACTGTGGGCGGCTGT	ACAGCCGCCCACAGTTTACTGGCT
	494	CGACTGATGTGCAACCAGCAGCTG	CAGCTGCTGGTTGCACATCAGTCG
	495	GGTTGCTCATACGACGAGCGAGTG	CACTCGCTCGTCGTATGAGCAACC
	496	GCGCAAATCCACGGAACCCGTACC	GGTACGGGTTCCGTGGATTTGCGC
	497	ACGCAGTTTATTCCCCTGGCTTCT	AGAAGCCAGGGGAATAAACTGCGT
10	498	AGAACCTCCGCGCCTCCGTAGTAG	CTACTACGGAGGCGCGGAGGTTCT
	499	AAAGGAGCTTTCGCCCAACGTACC	GGTACGTTGGGCGAAAGCTCCTTT
	500	AGTGATTGTGCCACTCCACAGCTC	GAGCTGTGGAGTGGCACAATCACT
	501	GCGATCGTCGAGGGTTGAGCTGAA	TTCAGCTCAACCCTCGACGATCGC
	502	GGGAGACAGCCATTATGGTCCTCG	CGAGGACCATAATGGCTGTCTCCC
15	503	GAGACGCTGTCACTCCGGCAGAAC	GTTCTGCCGGAGTGACAGCGTCTC
	504	CCACCGGTCGCTTAAGATGCACTT	AAGTGCATCTTAAGCGACCGGTGG
	505	CGGCATAACGTCCAGTCCTGGGAC	GTCCCAGGACTGGACGTTATGCCG
	506	AAGCGGAACGGGTTATACCGAGGT	ACCTCGGTATAACCCGTTCCGCTT
	507	TGCACACTAGGTCCGTCGCTTGAT	ATCAAGCGACGGACCTAGTGTGCA
20	508	AGGGAACCGCGTTCAAACTCAGTT	AACTGAGTTTGAACGCGGTTCCCT
	509	GAATTACAACCACCCGCTCGTGTT	AACACGAGCGGGTGGTTGTAATTC
	510	TTCAGTGCTCACGAAGCATGGATT	AATCCATGCTTCGTGAGCACTGAA
	511	TTAGTTTGGCGTTGGGACTTCACC	GGTGAAGTCCCAACGCCAAACTAA
	512	AATGCGACCTCGACGAGCCTCATA	TATGAGGCTCGTCGAGGTCGCATT
25	. 513	CCGAAACCGTTAACGTGGCGCACA	TGTGCGCCACGTTAACGGTTTCGG
	514	TAAAGTAACAAGGCGACCTCCCGC	GCGGGAGGTCGCCTTGTTACTTTA
	515	TAATGATTTTAGTCGCGGGGTGGG	CCCACCCGCGACTAAAATCATTA
	516	GGCTACTCTAAGTGCCCGCTCAGG	CCTGAGCGGGCACTTAGAGTAGCC
	517	TGGCGGACGACTCAATATCTCACG	CGTGAGATATTGAGTCGTCCGCCA
30	518	GGGCGTTAGGCGTAATAGACCGTC	GACGGTCTATTACGCCTAACGCCC
	519	GCCACCTTTAGACGGCGGCTCTAG	CTAGAGCCGCCGTCTAAAGGTGGC
	520	GAGATGTGTAAACGTGCAGGCACC	GGTGCCTGCACGTTTACACATCTC
	521	TAGCTCGTGGCCCTCCAAGCGTGT	ACACGCTTGGAGGGCCACGAGCTA
	522	GTGTCGGCGCTATTTGGCCTTACC	GGTAAGGCCAAATAGCGCCGACAC
35	523	CCAGGGAAGCAACTGGTTGCCATT	AATGGCAACCAGTTGCTTCCCTGG
	524	TTCCGAAACTAAGCCAGAACCGCT	AGCGGTTCTGGCTTAGTTTCGGAA
	525	GCAAACCCGGTAACCCGAGAGTTC	GAACTCTCGGGTTACCGGGTTTGC
	526	GCAAATGGCGTCATGCACGAACGT	ACGTTCGTGCATGACGCCATTTGC
	527	AGTACTTTCGCGCCCAGTTTAGGG	CCCTAAACTGGGCGCGAAAGTACT
40	528	AAGATCTGCGAGGCATCCCGGCTT	AAGCCGGGATGCCTCGCAGATCTT
	529	GCAAGTGTATCGCACAGTGCGATT	AATCGCACTGTGCGATACACTTGC

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i	530		
L	550	CCGACAAGGCCTCAATTCATTCTG	CAGAATGAATTGAGGCCTTGTCGG
	531	GTCTCGTCTCAACTTTAAGGCGCG	CGCGCCTTAAAGTTGAGACGAGAC
	532	ATCCAGAGATCCGTTTTGCAGCGT	ACGCTGCAAAACGGATCTCTGGAT
	533	GTCACCAGGAGGGAAGTTTCACCC	GGGTGAAACTTCCCTCCTGGTGAC
5	534	TTCCGTCAGGCGGATCAACGGAAT	ATTCCGTTGATCCGCCTGACGGAA
	535	ATGCCGGACACGCATTACACAGGC	GCCTGTGTAATGCGTGTCCGGCAT
	536	TGGGCCGCTTGGCGCTTTCATAGA	TCTATGAAAGCGCCAAGCGGCCCA
	537	CCTAGCGCGAGCTTTACTGACCAG	CTGGTCAGTAAAGCTCGCGCTAGG
	538	TTGGCCAGGAATATGGTCTCGAGA	TCTCGAGACCATATTCCTGGCCAA
10	539	GTCTGCGGCCGACTTGCTATGCAT	ATGCATAGCAAGTCGGCCGCAGAC
	540	AACTTGCTCATTCTCAAGCCGACG	CGTCGGCTTGAGAATGAGCAAGTT
	541	ACGTCAGCGATTGTGGCGAAATAT	ATATTTCGCCACAATCGCTGACGT
	542	ACGGCCTGCGTCAGCACATGCATC	GATGCATGTGCTGACGCAGGCCGT
	543	ATACCTCCGCAGAACCATTCCGTT	AACGGAATGGTTCTGCGGAGGTAT
15	544	AGTTCGCGGTCCCACGATTCACTT	AAGTGAATCGTGGGACCGCGAACT
	545	TGCTCAATTTGTGCAGAAAACGCC	GGCGTTTTCTGCACAAATTGAGCA
<u> </u>	546	TTATCGCGAGAGACGACCGTGTCC	GGACACGGTCGTCTCTCGCGATAA
	547	GACGCGACGTGAGTAGTGGAAGCG	CGCTTCCACTACTCACGTCGCGTC
	548	ATGGTAGGGCATTGGGCTTTCCT	AGGAAAGCCCAATGCCCCTACCAT
20	549	CCAAATATAGCCGCGCGGAGACAT	ATGTCTCCGCGCGGCTATATTTGG
	550	GCAAACCCTGATTGAATCGTGCCC	GGGCACGATTCAATCAGGGTTTGC
	551	TAGCGTCTTGCGTGAAACCATGGG	CCCATGGTTTCACGCAAGACGCTA
	552	CCACCCGACAGCGCTGGACTCTT	AAGAGTCCAGCGCTGTCGGGGTGG
	553	ACGAGCACTGAAGGCTGCTTTACG	CGTAAAGCAGCCTTCAGTGCTCGT
25	554	CATATCAGCGTCGTCTAGCTCGCG	CGCGAGCTAGACGACGCTGATATG
	555	TGATCCCGGACCGGCTAGACTAAT	ATTAGTCTAGCCGGTCCGGGATCA
ļ	556	GGCCCGACACTACAGGGTAATCA	TGATTACCCTGTAGTGTCGGGGCC
1	557	GGCTCCAGGGCGAGATTATGAATG	CATTCATAATCTCGCCCTGGAGCC
	558	CAAAATCCGATGGGCGGAAAATTA	TAATTTTCCGCCCATCGGATTTTG
30	559	CACAGGCGCATAGGGAGCAAGCTA	TAGCTTGCTCCCTATGCGCCTGTG
1	560	TAGCTATTGCCCCGATGGGCTACT	AGTAGCCCATCGGGGCAATAGCTA
1	561	TGGTACGCGGTCCATAGCAAGTCG	CGACTTGCTATGGACCGCGTACCA
	562	GACGCTGTGGCTCGGAAACTGTTC	GAACAGTTTCCGAGCCACAGCGTC
	563	CCTGGGTTCGCCGCGTGGTAACTG	CAGTTACCACGCGGCGAACCCAGG
35	564	TTCCCGCGTAGCCCAACAGCTATA	TATAGCTGTTGGGCTACGCGGGAA
. ]	565	TTCGCGGATTGCTGCCGCATAACA	TGTTATGCGGCAGCAATCCGCGAA
	566	AAAAATGGCACCGAAGTTGAGGCA	TGCCTCAACTTCGGTGCCATTTTT
L	567	CATTCCGCGCGAGTTGAAATCCAG	CTGGATTTCAACTCGCGCGGAATG
<u> </u>	568	ACGCACGTTTTTTGGCACGGTTAA	TTAACCGTGCCAAAAAACGTGCGT
40	569	TGTCCATGACGTCGTTTCTCTGGT	ACCAGAGAAACGACGTCATGGACA
L	570	TCTCAGTCGGACTCGTATGCCAGA	TCTGGCATACGAGTCCGACTGAGA

5 5 5 5 5 5 5 5 10 5 5 5 5 5 5 5	72 TTCA/ 73 GGTG 74 AGCG 75 CCGA 76 GCCC 77 CGGG 78 TGAT 79 AAGG 80 GCGC 81 GCCA 82 CGCG 83 CAAC	AAACGCACACATCAAGCATC ACCAAGCGGGGTGTTCGTGA TCGGAGGGTGTGACCTCGA CTTTTGGTCATGATTTGCAA GGACTTACGTCTGCCCAGGA AATCCAGTTCTTATGCGCCC GTTAACCCACGCAAGTTATGA TAGCGCTCAATACACGCGTG GCAGACCTTTGGTTCGACTG CACAAGATTCACATGTCATT TGTTCAAGGGCCTTTCGAAG ATTGTGGTGGCCGG	GATGCTTGATGTGTGCGTTTGAG TCACGAACACCCCGCTTGGTTGAA TCGAGGTCACCACCCCTCCGACACC TTGCAAATCATGACCAAAAGCGCT TCCTGGGCAGACGTAAGTCCTCGG GGGCGCATAAGAACTGGATTGGGC TCATAACTTGCGTGGGTTAACCCG CACGCGTGTATTGAGCGCTAATCA CAGTCGAACCAAAGGTCTGCCCTT AATGACATGTGAATCTTGTGGCGC CTTCGAAAGGCCCTTGAACATGGC CCGGCACCTAGACAAAACACCGCG
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	73 GGTG 74 AGCG 75 CCGA 76 GCCC 77 CGGG 78 TGAT 79 AAGG 80 GCGC 81 GCCA 82 CGCG 83 CAAC	TCGGAGGGTGGTGACCTCGA CTTTTGGTCATGATTTGCAA GGACTTACGTCTGCCCAGGA AATCCAGTTCTTATGCGCCC GTTAACCCACGCAAGTTATGA FAGCGCTCAATACACGCGTG GCAGACCTTTGGTTCGACTG CACAAGATTCACATGTCATT TGTTCAAGGGCCTTTCGAAG	TCGAGGTCACCACCCTCCGACACC TTGCAAATCATGACCAAAAGCGCT TCCTGGGCAGACGTAAGTCCTCGG GGGCGCATAAGAACTGGATTGGGC TCATAACTTGCGTGGGTTAACCCG CACGCGTGTATTGAGCGCTAATCA CAGTCGAACCAAAGGTCTGCCCTT AATGACATGTGAATCTTGTGGCGC CTTCGAAAGGCCCTTGAACATGGC
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	74 AGCG 75 CCGA 76 GCCC 77 CGGG 78 TGAT 79 AAGG 80 GCGC 81 GCCA 82 CGCG 83 CAAC	CTTTTGGTCATGATTTGCAA GGACTTACGTCTGCCCAGGA AATCCAGTTCTTATGCGCCC GTTAACCCACGCAAGTTATGA TAGCGCTCAATACACGCGTG GCAGACCTTTGGTTCGACTG CCACAAGATTCACATGTCATT TGTTCAAGGGCCTTTCGAAG	TTGCAAATCATGACCAAAAGCGCT TCCTGGGCAGACGTAAGTCCTCGG GGGCGCATAAGAACTGGATTGGGC TCATAACTTGCGTGGGTTAACCCG CACGCGTGTATTGAGCGCTAATCA CAGTCGAACCAAAGGTCTGCCCTT AATGACATGTGAATCTTGTGGCGC CTTCGAAAGGCCCTTGAACATGGC
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	75 CCGA 76 GCCC 77 CGGG 78 TGAT 79 AAGG 80 GCGC 81 GCCA 82 CGCG 83 CAAC	GGACTTACGTCTGCCCAGGA AATCCAGTTCTTATGCGCCC GTTAACCCACGCAAGTTATGA TAGCGCTCAATACACGCGTG GCAGACCTTTGGTTCGACTG CACAAGATTCACATGTCATT TGTTCAAGGGCCTTTCGAAG	TCCTGGGCAGACGTAAGTCCTCGG GGGCGCATAAGAACTGGATTGGGC TCATAACTTGCGTGGGTTAACCCG CACGCGTGTATTGAGCGCTAATCA CAGTCGAACCAAAGGTCTGCCCTT AATGACATGTGAATCTTGTGGCGC CTTCGAAAGGCCCTTGAACATGGC
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	76 GCCC 77 CGGG 78 TGAT 79 AAGG 80 GCGC 81 GCCA 32 CGCG 33 CAAC 84 CGAT	AATCCAGTTCTTATGCGCCC GTTAACCCACGCAAGTTATGA TAGCGCTCAATACACGCGTG GCAGACCTTTGGTTCGACTG TCACAAGATTCACATGTCATT TGTTCAAGGGCCTTTCGAAG	GGGCGCATAAGAACTGGATTGGGC TCATAACTTGCGTGGGTTAACCCG CACGCGTGTATTGAGCGCTAATCA CAGTCGAACCAAAGGTCTGCCCTT AATGACATGTGAATCTTGTGGCGC CTTCGAAAGGCCCTTGAACATGGC
55 55 55 56 56 56 56	77 CGGG 78 TGAT 79 AAGG 80 GCGC 81 GCCA 82 CGCG 83 CAAC	TTAACCCACGCAAGTTATGA TAGCGCTCAATACACGCGTG GCAGACCTTTGGTTCGACTG CACAAGATTCACATGTCATT TGTTCAAGGGCCTTTCGAAG	TCATAACTTGCGTGGGTTAACCCG CACGCGTGTATTGAGCGCTAATCA CAGTCGAACCAAAGGTCTGCCCTT AATGACATGTGAATCTTGTGGCGC CTTCGAAAGGCCCTTGAACATGGC
55 55 56 56 56 56	78 TGAT 79 AAGG 80 GCGC 81 GCCA 32 CGCG 33 CAAC 84 CGAT	TAGCGCTCAATACACGCGTG GCAGACCTTTGGTTCGACTG CCACAAGATTCACATGTCATT TGTTCAAGGGCCTTTCGAAG GTGTTTTGTCTAGGTGCCGG	CACGCGTGTATTGAGCGCTAATCA CAGTCGAACCAAAGGTCTGCCCTT AATGACATGTGAATCTTGTGGCGC CTTCGAAAGGCCCTTGAACATGGC
55 56 56 56 56	79 AAGG 80 GCGC 81 GCCA 82 CGCG 83 CAAC	GCAGACCTTTGGTTCGACTG CACAAGATTCACATGTCATT TGTTCAAGGGCCTTTCGAAG GTGTTTTGTCTAGGTGCCGG	CAGTCGAACCAAAGGTCTGCCCTT AATGACATGTGAATCTTGTGGCGC CTTCGAAAGGCCCTTGAACATGGC
10 58 58 58 58	GCGC B1 GCCA B2 CGCG B3 CAAC	CACAAGATTCACATGTCATT TGTTCAAGGGCCTTTCGAAG GTGTTTTGTCTAGGTGCCGG	AATGACATGTGAATCTTGTGGCGC CTTCGAAAGGCCCTTGAACATGGC
56 56 56	GCCA GCCG GCCG GCCG GCCG GCCG GCCG GCCG	TGTTCAAGGGCCTTTCGAAG GTGTTTTGTCTAGGTGCCGG	CTTCGAAAGGCCCTTGAACATGGC
56 58 58	32 CGCG 33 CAAC. 34 CGAT.	GTGTTTTGTCTAGGTGCCGG	
58	CAAC	· · · · · · · · · · · · · · · · · · ·	CCGGCACCTAGACAAAACACCGCG
58	34 CGAT	ATTGTGGTGGCACTCCATCC	
		11101001000101001100	GGATGGAGTGCCACCACAATGTTG
15 58	DE COOT	ACGCGCCGGTTTGTTAAATC	GATTTAACAAACCGGCGCGTATCG
	55 GGC1	ATAAACGTGCGGACTGCTCC	GGAGCAGTCCGCACGTTTATAGCC
58	36 TGGG	TAAATCACTATTGCGCGGTT	AACCGCGCAATAGTGATTTACCCA
58	37 GTCT	TCATCGGCCCGCGCAAGCTA	TAGCTTGCGCGGGCCGATGAAGAC
58	38 GCGA	CACACCCTGTACTCTGATGC	GCATCAGAGTACAGGGTGTGTCGC
58	39 GTAG	CAGGGTCCGCAAGACCAAGC	GCTTGGTCTTGCGGACCCTGCTAC
20 59	90 TCGC	CAACGCAGGGTAACTGCCAT	ATGGCAGTTACCCTGCGTTGGCGA
59	91 ACTC	CGAAGCTTCGAGCGGCACGA	TCGTGCCGCTCGAAGCTTCGGAGT
59	TCCC	GCCACTAGACTGACTCGTA	TACGAGTCAGTCTAGTGGGCGGGA
59	93 ACCT	TCTGGGGTCGCTCACCAATA	TATTGGTGAGCGACCCCAGAAGGT
59	94 ATCA	CCCACGCAGAGTGAAGAG	CTCTTCACTCTGCCGTGGGATGAT
25 59	95 CGCT	GGACTGGCCTATCCGAGTCG	CGACTCGGATAGGCCAGTCCAGCG
59	96 CGGT	CTCAGCAACACTGTCGCAAA	TTTGCGACAGTGTTGCTGAGACCG
59	97 CGAA	CGTTCTCCGATGTAATGGCC	GGCCATTACATCGGAGAACGTTCG
59	98 ATAC	CGTGCGACAAGCCCCTCTGA	TCAGAGGGGCTTGTCGCACGGTAT
59	9 AGCT	CATTCCCGAGACGGAACACC	GGTGTTCCGTCTCGGGAATGAGCT
30 60	00 TTTC/	TGCGGCCGTTGCAAATCAT	ATGATTTGCAACGGCCGCATGAAA
60	D1 ACTC	GAACGGACGTTCAATTCCCA	TGGGAATTGAACGTCCGTTCGAGT
60	D2 CTGC	ATGGTGTGGGTGAGACTCCC	GGGAGTCTCACCCACACCATGCAG
60	CCGC	GAGTGTGGATGCGTGTTGA	TCAACACGCCATCCACACTCGCGG
60	04 AATG	TGTCGGTCCTAAGCCGGGTG	CACCCGGCTTAGGACCGACACATT
35 60	5 TAAG	ACGAGCCTGCACAGCTTGCG	CGCAAGCTGTGCAGGCTCGTCTTA
60	GGCG	TGGGAGGATAAGACGATGTC	GACATCGTCTTATCCTCCCACGCC
60	7 TGCT	CCATGTTAGGAACGCACCAC	GTGGTGCGTTCCTAACATGGAGCA
60	08 CGGT	GTTGGTCGGACTGACGACTG	CAGTCGTCAGTCCGACCAACACCG
60	9 CCGC	GCGTATCTATCAGATCTGGG	CCCAGATCTGATAGATACGCGCGG
40 61	IO AAAG	CATGCTCCACCTGGAGCGAG	CTCGCTCCAGGTGGAGCATGCTTT
61	11 ACTTO	CATCGCTGGGTAGATCCGG	CCGGATCTACCCAGCGATGCAAGT

1	612	TGCTTACGCAGTGGATTGGTCAGA	TCTGACCAATCCACTGCGTAAGCA
	613	ATGCAGATGAACAAATCGCCGAAT	ATTCGCCGATTTGTTCATCTGCAT
	614	GCAATTCTGGGCCATGTATTCGTC	GACGAATACATGGCCCAGAATTGC
	615	AGGGTTCCTTACGCGTCGACATGG	CCATGTCGACGCGTAAGGAACCCT
5	616	GTGGAGCTAATCGCGAGCCTCAGA	TCTGAGGCTCGCGATTAGCTCCAC
3	617	TCGTAGTCTCACCGGCAATGATCC	GGATCATTGCCGGTGAGACTACGA
	618	TTATAGCAGTGCGCCAATGCTTCG	CGAAGCACCACACCACTCTTCC
	619	CGAACAGTGCTGTCCGTCGCTCAA	TTGAGCGACGGACAGCACTGTTCG
40	620	TCCGCGTGGACTGTTAGACGCTAT	ATAGCGTCTAACAGTCCACGCGGA
10	621	CATTAGCCCGCTGTCGGTAACTGT	ACAGTTACCGACAGCGGGCTAATG
	622	GGAAAGAAACTCAGACGCGCAATG	CATTGCGCGTCTGAGTTTCTTTCC
	623	CGACTCGCTGGACAGGAGAATCGT	ACGATTCTCCTGTCCAGCGAGTCG
	624	CATGATCCTCTGTTTCACCCGCGG	CCGCGGGTGAAACAGAGGATCATG
	625	GGCGTAGCGCTCTAAAAGCTTCGG	CCGAAGCTTTTAGAGCGCTACGCC
15	626	AGTGATGCCATCAGGCCCGTATAC	GTATACGGGCCTGATGGCATCACT
	627	TATGGAAAGGGCAACAGCGCTATC	GATAGCGCTGTTGCCCTTTCCATA
	628	CTGTGGTTGATGGAGGATCCACAC	GTGTGGATCCTCCATCAACCACAG
	629	ACTCGCTGGAATTTGCGCTGACAC	GTGTCAGCGCAAATTCCAGCGAGT
:	630	CAGGCCCGAACCACGCGGTTACAG	CTGTAACCGCGTGGTTCGGGCCTG
20	631	GGCGCAATGGGCGCATAAATACTA	TAGTATTTATGCGCCCATTGCGCC
	632	GGTCAATTCGCGCTACATGCCCTA	TAGGGCATGTAGCGCGAATTGACC
	633	GATGGTGGACTGGAGCCCTTCCGC	GCGGAAGGGCTCCAGTCCACCATC
	634	CCGCGCATAGCGCAATAGGGGAGA	TCTCCCCTATTGCGCTATGCGCGG
	635	TCTTCTGGCTGTCCGGCACCCGAA	TTCGGGTGCCGGACAGCCAGAAGA
25	636	GCGTTCGCAATTCACGGGCCCTTA	TAAGGCCCGTGAATTGCGAACGC
	637	TCGTTTCGGCCTTGGAGAGTATCG	CGATACTCTCCAAGGCCGAAACGA
	638	AGGTGCAAGTGCAAGGCGAGAGGC	GCCTCTCGCCTTGCACCT
	639	CGCCAGTTTCGATGGCTGACGTTT	AAACGTCAGCCATCGAAACTGGCG
	640	GCTTTACCGCCGATCCCAGATATC	GATATCTGGGATCGGCGGTAAAGC
30	641	GTGCTTGACGAAGAGGCGAAATGT	ACATTTCGCCTCTTCGTCAAGCAC
	642	CAGTCCGTGCGCTTCATGTCCTCA	TGAGGACATGAAGCGCACGGACTG
	643	TACGCGTAAGAGCCTACCCTCGCG	CGCGAGGGTAGGCTCTTACGCGTA
	644	GGCGAGTCTTGTGGGGACATGTGT	ACACATGTCCCCACAGACTCGCC
	645	CCAAAGCGAAGCGAGCGTGTCTAT	ATAGACACGCTCGCTTCGCTTTGG
35	646	GCCGTAGGTTGCTCTTCACCGAAC	GTTCGGTGAAGAGCAACCTACGGC
	647	AAATCCGCGATGTGCCGTGAGGCT	AGCCTCACGGCACATCGCGGATTT
	648	GGCTTCGCACCCGTACCAATTTAG	CTAAATTGGTACGGGTGCGAAGCC
	649	TGTAGAGTCCCACGTAGCCGGCAT	ATGCCGGCTACGTGGGACTCTACA
	650	CACTAGTCTGGGGCAAGGTGCATT	AATGCACCTTGCCCCAGACTAGTG
40	651	TGTACTCGGCAGGCGCAATAGATT	AATCTATTGCGCCTGCCGAGTACA
	652	AACGGGTATCGGAAGCGTAAAAGC	GCTTTTACGCTTCCGATACCCGTT
			1

	653	CGGACTGCCCGTTTGCAAGTTGAG	CTCAACTTGCAAACGGGCAGTCCG
	654	ATCGTTCAGCACTGGAGCCCGTAA	TTACGGGCTCCAGTGCTGAACGAT
	655	ATGCATCGAACTAGTCGTGACGGC	GCCGTCACGACTAGTTCGATGCAT
	656	TTCCAGGCATTAAGGAGAGGGAGC	GCTCCCTCTCCTTAATGCCTGGAA
5	657	GTGCGACATCTACTCCACGATCCC	GGGATCGTGGAGTAGATGTCGCAC
	658	CTCATCGTCCTAACACGAGAGCCC	GGGCTCTCGTGTTAGGACGATGAG
	659	AATGGCACTTCGGCGGTGATGCAA	TTGCATCACCGCCGAAGTGCCATT
	660	CCGTGGGAGGGAATCCAACCGAGG	CCTCGGTTGGATTCCCTCCCACGG
	661	AAATTCTCGTTGGTGACGGCTCAT	ATGAGCCGTCACCAACGAGAATTT
10	662	TTGCTCTTATCCTTGTCCTGGGCG	CGCCCAGGACAAGGATAAGAGCAA
	663	TTAAGGATCAGGCGGAGCTTGCAG	CTGCAAGCTCCGCCTGATCCTTAA
	664	CGCGACTAAGGTGCTGCAACTCGA	TCGAGTTGCAGCACCTTAGTCGCG
	665	GCTCGATTTCACGGCCCGTTGTTC	GAACAACGGGCCGTGAAATCGAGC
	666	AGCAGAGTGCGTTGCAGAGGCTAA	TTAGCCTCTGCAACGCACTCTGCT
15	667	TGGAGGTGAGGACGACGTGCACTA	TAGTGCACGTCGTCCTCACCTCCA
	668	AACCGTTTAGGGTACATTCGCGGT	ACCGCGAATGTACCCTAAACGGTT
	669	TATGATCGCTCGGCTCACAGTTTG	CAAACTGTGAGCCGAGCGATCATA
	670	GACTTTTTGCGGAAACGTCATGGT	ACCATGACGTTTCCGCAAAAAGTC
	671	TGTCGGTTATTCCACCTGCAAGGA	TCCTTGCAGGTGGAATAACCGACA
20	672	CTATGGTTTGCACTGCGCCGTCGA	TCGACGCCCAGTGCAAACCATAG
	673	AGCAGGGAAATTCAATCGTTCGCA	TGCGAACGATTGAATTTCCCTGCT
	674	CCTAACCGAGCGCTTAGCATTTCC	GGAAATGCTAAGCGCTCGGTTAGG
	675	CCCGACCCTAACTCGCATTGAATA	TATTCAATGCGAGTTAGGGTCGGG
	676	TTGCTTAATGGTGACGCCACGGAT	ATCCGTGGCGTCACCATTAAGCAA
25	677	GATGCTCGCCGTGTTTAGTTCACG	CGTGAACTAAACACGGCGAGCATC
	678	TCGGATGACGAGTTTCCATGACGG	CCGTCATGGAAACTCGTCATCCGA
	679	ATGCGGTCTACTTTCTCGATCGGG	CCCGATCGAGAAGTAGACCGCAT
	680	TTGCGAGGCTAAGCACACGGTAAA	TTTACCGTGTGCTTAGCCTCGCAA
	681	AACTTAATTACCGCCTCTGGCGCC	GGCGCCAGAGGCGGTAATTAAGTT
30	682	GTGACCGCGAACTTGTTCCGACAG	CTGTCGGAACAAGTTCGCGGTCAC
	683	TGCGGATTACCGATTCGCTCTTAA	TTAAGAGCGAATCGGTAATCCGCA
	684	TGATAGGGGCCACGTTGATCAGA	TCTGATCAACGTGGCCCCCTATCA
	685	TCGCTCCGTAGCGATTCATCGTAG	CTACGATGAATCGCTACGGAGCGA
	686	TGTCAGCTGGTAGCCTCCGTTTGA	TCAAACGGAGGCTACCAGCTGACA
35	687	AGCGTCGCATGACGCTTACGGCAC	GTGCCGTAAGCGTCATGCGACGCT
	688	TCACTCAGCGCTGTGACTGCCTGA	TCAGGCAGTCACAGCGCTGAGTGA
	689	GTTTGCGCTATAGTGGGGGACCGT	ACGGTCCCCCACTATAGCGCAAAC
	690	GTCGCATTCTGCACTGGCTTCGCC	GGCGAAGCCAGTGCAGAATGCGAC
	691	TGATTAGGTGCGGTCCCGTAGTCC	GGACTACGGGACCGCACCTAATCA
40	692	AAGGGACCTTGGGTGACGGCGAGA	TCTCGCCGTCACCCAAGGTCCCTT
	693	TCAAATGGCCACCGCGTGTCATTC	GAATGACACGCGGTGGCCATTTGA

	694	CTCCGACGACCAATAAATAGCCGC	GCGGCTATTTATTGGTCGTCGGAG
	695	GGCTATTCCCGTAGAGAGCGTCCA	TGGACGCTCTCTACGGGAATAGCC
	696	TGGATAACCTCTCGGTCCATCCAC	GTGGATGGACCGAGAGGTTATCCA
	697	GACCGCTGTACGGGAGTGTGCCTT	AAGGCACACTCCCGTACAGCGGTC
5	698	GCCACAGAGTTTTAGCAGGGACCC	GGGTCCCTGCTAAAACTCTGTGGC
	699	CCCACGCTTTCCGACCACTGACCT	AGGTCAGTGGTCGGAAAGCGTGGG
	700	CATTGACACAATGCGGGGACTGAT	ATCAGTCCCCGCATTGTGTCAATG
	701	AGCCACTCGACAGGGTTCCAAAGC	GCTTTGGAACCCTGTCGAGTGGCT
:	702	CAGGATGAGCAAAGCGACTCTCCA	TGGAGAGTCGCTTTGCTCATCCTG
10	703	CAAGGTATGGTCTGGGGCCTAAGC	GCTTAGGCCCCAGACCATACCTTG
	704	GGTGTTCGGCCTAAACTCTTTCGG	CCGAAAGAGTTTAGGCCGAACACC
	705	TTTAGTCGGACCCTGTGGCAATTC	GAATTGCCACAGGGTCCGACTAAA
	706	CACACGTTTCCGACCAGCCTGAAC	GTTCAGGCTGGTCGGAAACGTGTG
	707	CTGGACGAACTGGCTTCCTCGTAC	GTACGAGGAAGCCAGTTCGTCCAG
15	708	TTCACAATCCGCCGAAAACTGACC	GGTCAGTTTTCGGCGGATTGTGAA
i	709	AACAGGATATCCGCGATCACGACA	TGTCGTGATCGCGGATATCCTGTT
	710	TACGTCGGATCCATTGCGCCGAGT	ACTCGGCGCAATGGATCCGACGTA
	711	CATGGATCTCTCGGTTTGATCGCC	GGCGATCAAACCGAGAGATCCATG
	712	AGCCAGGCGCGTATATACGCTCGG	CCGAGCGTATATACGCGCCTGGCT
20	713	ATTTGGCACGTGTCGTGCCATGTT	AACATGGCACGACACGTGCCAAAT
	714	CCGCGTTGCACCACTTTGAGGTGC	GCACCTCAAAGTGGTGCAACGCGG
	715	TTGGACGTGACAAGCATGGCGCTC	GAGCGCCATGCTTGTCACGTCCAA
	716	CTGAATCGCGCAAGTAAATGGGGG	CCCCATTTACTTGCGCGATTCAG
	717	GATAAGGTCCACCAGATTGCGCGC	GCGCGCAATCTGGTGGACCTTATC
25	718	CTAACAATTGCCAACCGGGACGGC	GCCGTCCCGGTTGGCAATTGTTAG
	719	GGTAACCTGGGTGCTTGCAGGTTA	TAACCTGCAAGCACCCAGGTTACC
	720	ATCGGAGCCACCATTCGCATTGGG	CCCAATGCGAATGGTGGCTCCGAT
	721	GTGAACTGGCTTGCCCCAGGATTA	TAATCCTGGGGCAAGCCAGTTCAC
	722	AGGCGATAGCATGGTCCCATATGA	TCATATGGGACCATGCTATCGCCT
30	723	AACGGTATCGTGGCTAATGCACGA	TCGTGCATTAGCCACGATACCGTT
:	724	AGTAGTGGTCCTCCAGATCGGCAA	TTGCCGATCTGGAGGACCACTACT
	725	CCGTTGAATTGGACGGGAGGTTAG	CTAACCTCCCGTCCAATTCAACGG
	726	GCATAAGTGCGGCATCGCGAAGGG	CCCTTCGCGATGCCGCACTTATGC
	727	CGACAAGATGCAGCTGCTACATGC	GCATGTAGCAGCTGCATCTTGTCG
35	728	TCGCAGTGATTCCCGACCGATAAG	CTTATCGGTCGGGAATCACTGCGA
	729	CAAGGCGAGTCCACTCGAGGGGAC	GTCCCCTCGAGTGGACTCGCCTTG
	730	GCAACTTGCACGGCATAAGTGGCC	GGCCACTTATGCCGTGCAAGTTGC
	731	TCCGAGCTTGACGTTCGCGACGTC	GACGTCGCGAACGTCAAGCTCGGA
	732	AGCGCTGGGCTGTGCCATCTC	GAGATGGCAGCACAGCCCAGCGCT
40	733	TTCATGTCGCTGAGTAACCCTCGC	GCGAGGGTTACTCAGCGACATGAA
	734	CGAACCGCTAATGCCCATTGTCAG	CTGACAATGGGCATTAGCGGTTCG

	735	CACGGAAGGTGGGACAAATCGCCG	CGGCGATTTGTCCCACCTTCCGTG
	736	CACAGATGGAGACAAACGCGCCTT	AAGGCGCGTTTGTCTCCATCTGTG
	737	TTTTCGCAACTCGCTCCATAACCC	GGGTTATGGAGCGAGTTGCGAAAA
	738	ACGTTACGTTTCCGGCGCCTCTAA	TTAGAGGCGCCGGAAACGTAACGT
5	739	TATCGGATTGCGTGGGTTTCAATC	GATTGAAACCCACGCAATCCGATA
	740	CTTCCACAATTGTCTGCGACGCAC	GTGCGTCGCAGACAATTGTGGAAG
	741	TGCACAAAGGTATGGCTGTCCGGC	GCCGGACAGCCATACCTTTGTGCA
	742	TCCGATGCCAGTCCCATCTTAAGA	TCTTAAGATGGGACTGGCATCGGA
	743	CTGAAACCGTGCGAATCGAGGTGA	TCACCTCGATTCGCACGGTTTCAG
10	744	CGGTGTTCCGCGTGTCGAAAAAAT	ATTITTCGACACGCGGAACACCG
	745	TCTAGCAGGCCTTTTGAATCGCCA	TGGCGATTCAAAAGGCCTGCTAGA
	746	GAGTCACCTCTGAGACGGACGCCA	TGGCGTCCGTCTCAGAGGTGACTC
	747	TCTTCTGTCATCCTGCAGCAGCAT	ATGCTGCTGCAGGATGACAGAAGA
	748	GCGGATGAAACCTGAAAGGGGCCT	AGGCCCCTTTCAGGTTTCATCCGC
.15	749	GGGGCCCCAAACTGGTATCAAGCC	GGCTTGATACCAGTTTGGGGCCCC
	750	GCATTGGCTTCGGATTCTCCTACA	TGTAGGAGAATCCGAAGCCAATGC
	751	AGGCGGCCCAACTGTGAGGTCTTG	CAAGACCTCACAGTTGGGCCGCCT
	752 .	ACACCATGTGCTCCGCGCTGCAGT	ACTGCAGCGCGGAGCACATGGTGT
	753	ACGATGAACATGAATCGGGAGTCG	CGACTCCCGATTCATGTTCATCGT
20	754	CTGCATCCCTGTAGCAGCGCTCCG	CGGAGCGCTGCTACAGGGATGCAG
	755	GTGCCGTATTTCGACCTGTGCGTT	AACGCACAGGTCGAAATACGGCAC
	756	GCAGTGCGCACTTCAGTTCAAAAG	CTTTTGAACTGAAGTGCGCACTGC
	757	GCGATTTTAAGCGATGCCTTGACG	CGTCAAGGCATCGCTTAAAATCGC
	758	TAGGTGACCTAGGCTTGCTTGCGG	CCGCAAGCAAGCCTAGGTCACCTA
25	759	CTGGATACCTTGCCTGTGCGGCGC	GCGCCGCACAGGCAAGGTATCCAG
	760	CCCCTTACGGCTCGTCGTCTATGC	GCATAGACGACGAGCCGTAAGGGG
	761	GCGCTTGCCCGATGCGATGCATTA	TAATGCATCGCATCGGGCAAGCGC
	762	TTTCTGTAAGCGGCCTGGGGTTCA	TGAACCCCAGGCCGCTTACAGAAA
	763	GGCTGAGGTGAGCGGTAAGGATGA	TCATCCTTACCGCTCACCTCAGCC
30	764	TCTTGGCCTCCCGATCTAATTTG	CAAATTAGATCGGGGAGGCCAAGA
	765	GGAGGTAACGCCGTGTACGTAGGA	TCCTACGTACACGGCGTTACCTCC
	766	GTAATCCATTTGTGGCTGCGTCAA	TTGACGCAGCCACAAATGGATTAC
	767	CAAACCCATTCCAGCAGACGCCTG	CAGGCGTCTGCTGGAATGGGTTTG
	768	TAGGAGGAATTTGGCATGCGGGCG	CGCCCGCATGCCAAATTCCTCCTA
35	769	ATAGGTAGGATGTGCCCGGCGTTG	CAACGCCGGGCACATCCTACCTAT
	770	GCAAGTGCTTAGCTCGTCAGCCTC	GAGGCTGACGAGCTAAGCACTTGC
	771	CTGGCTGTGTCGCATCTCGTTAAC	GTTAACGAGATGCGACACAGCCAG
	772	CTAACGTCGTCTCGCGCAATCACT	AGTGATTGCGCGAGACGACGTTAG
	773	TTTTCATAAACGTTGTCCCCGAGC	GCTCGGGGACAACGTTTATGAAAA
40	774	AGCAGGAGGACGAACCTCCGCTCC	GGAGCGGAGGTTCGTCCTCCTGCT
	775	TTCAAGCACCATCGTGCAATCCAA	TTGGATTGCACGATGGTGCTTGAA

	776	AGCGTCGCCAGTGATCGCTAGTGG	CCACTAGCGATCACTGGCGACGCT
		ACCOTOCOCATOATCCCTACTCC	CCACTAGGGATGAGTGGGGAGGGT
<b>,</b>	777	TACATTCCCTGCCTCCGTGGGCTT	AAGCCCACGGAGGCAGGGAATGTA
	778	CGCTTCGCGTATTCAGTAGCGGTT	AACCGCTACTGAATACGCGAAGCG
	779	TCGGACGCGTCGACACTCATTATA	TATAATGAGTGTCGACGCGTCCGA
5	780	TCTGAGCAGGCCAGCTCCAGCT	AGCTGGAGCGCTGGCCTGCTCAGA
	781	TTGAATTGCCAAGCCCTGAAAGCC	GGCTTTCAGGGCTTGGCAATTCAA
	782	AGTTTTCGCCTTGATGCGTCGGTG	CACCGACGCATCAAGGCGAAAACT
	783	GTTTCATAGGCCACGCGTGCTAAA	TTTAGCACGCGTGGCCTATGAAAC
Ţ.	784	GGAGCGAAGACTTCGTCTGCCCAA	TTGGGCAGACGAAGTCTTCGCTCC
10	785	ATTGGCCGAGGGTGAATGCAGCCT	AGGCTGCATTCACCCTCGGCCAAT
	786	TGATCCATCCGAATGCTTTTCCAT	ATGGAAAAGCATTCGGATGGATCA
	787	GCACACAGTTGTCTTGGCCCATGA	TCATGGGCCAAGACAACTGTGTGC
Γ	788	CTGGCGGCAGTGGAAAAAACAAC	GTTGTTTTTTCCACTGCCCGCCAG
	789	ATCTCCATGCGTAAGACTGCTCCG	CGGAGCAGTCTTACGCATGGAGAT
15	790	TCTCCTCGTCGCAGTTCGTGGA	TCCACGAACTGCGACGAGAGGAGA
Ī	791	TAGCGTATTCACTCTTGCCGAGCA	TGCTCGGCAAGAGTGAATACGCTA
	792	CAATCAAAAGCCACGGCGCGATGG	CCATCGCGCCGTGGCTTTTGATTG
	793	AGCGTCACGGAATTCAGCAGATCT	AGATCTGCTGAATTCCGTGACGCT
	794	GACTCCCTGTTAATGCGCCCAAGG	CCTTGGGCGCATTAACAGGGAGTC
20	795	TAGGCACTGCCGGTTCAGATTCAA	TTGAATCTGAACCGGCAGTGCCTA
Ī	796	AACAGGGTGATAACGGTGGCCAAT	ATTGGCCACCGTTATCACCCTGTT
	797	CGTGCGTACCATGTGTAAGTGCGT	ACGCACTTACACATGGTACGCACG
	798	GACCAATTCTACTTCGGCAGCCCA	TGGGCTGCCGAAGTAGAATTGGTC
	799	ATCGGACCGATTTGCTTTTGGCTG	CAGCCAAAAGCAAATCGGTCCGAT
25	800	TCCGCCGAAGCACACGCTTATTCG	CGAATAAGCGTGTGCTTCGGCGGA
	801	AACGGTACGCATTGTGAGCAGTGT	ACACTGCTCACAATGCGTACCGTT
	802	TGGCGACTACTGTTCCCCTGAATC	GATTCAGGGGAACAGTAGTCGCCA
	803	CAGAGGGGACAGCCGTATGCCTTA	TAAGGCATACGGCTGTCCCCTCTG
	804	CGGTGGTTTTATCGGAATCTGCGA	TCGCAGATTCCGATAAAACCACCG
30	805	TTGGCCTCCGACCTCACGACATAT	ATATGTCGTGAGGTCGGAGGCCAA
	806	CGTTTCGCTAGCATCTGGCGCCGA	TCGGCGCCAGATGCTAGCGAAACG
	807	ACTAAGCGGTGGAGCCGGTGGATG	CATCCACCGGCTCCACCGCTTAGT
	808	ATATTGGCTGCGTTTACGGGCCGC	GCGGCCCGTAAACGCAGCCAATAT
	809	CCGCTATGGTGGCAATCCCGATAC	GTATCGGGATTGCCACCATAGCGG
35	810	GTTGCATGTGGCTCAGGCGGCATA	TATGCCGCCTGAGCCACATGCAAC
Ī	. 811	ATTCTGGGGAGTGACCCAGGGCTT	AAGCCCTGGGTCACTCCCCAGAAT
	812	CTCTCCAAGGAGACGAGCCAATGT	ACATTGGCTCGTCTCCTTGGAGAG
	813	GAAAGGACGGGATTTGGGGGCTAA	TTAGCCCCAAATCCCGTCCTTTC
	814	TATGTAGTACCTTGGCTCGCGCCA	TGGCGCGAGCCAAGGTACTACATA
40	815	TCCCTTTCGATGAGCGGCTGTACT	AGTACAGCCGCTCATCGAAAGGGA
	816	TAGATCGGGCAGAGCCCGTATCTT	AAGATACGGGCTCTGCCCGATCTA

	817	GGAATGCTTTAGGCTGCCGAGCTG	CAGCTCGGCAGCCTAAAGCATTCC
	818	ATGGTAGCAACATTCAACGCCAGG	CCTGGCGTTGAATGTTGCTACCAT
	819	CTATGAAACGTGTGGCCCAGCAAC	GTTGCTGGGCCACACGTTTCATAG
Ī	820	ATGTTGCTAGTGCCTTTCGGGCCT	AGGCCCGAAAGGCACTAGCAACAT
5	821	CCAATGTGCGCAGACTCAGTCATT	AATGACTGAGTCTGCGCACATTGG
	822	GATAGTGCTCGCAAACGGGCCTTC	GAAGGCCCGTTTGCGAGCACTATC
	823	GCACCCTGTTGCCTCATTGAGCGT	ACGCTCAATGAGGCAACAGGGTGC
1	824	GGCGTGAATAGAGTGACCAGGCGG	CCGCCTGGTCACTCTATTCACGCC
	825	ACGTGCCAGCTGCGGGCACTTTAT	ATAAAGTGCCCGCAGCTGGCACGT
10	826	AGTGGAATAGTCGCGTCGTGCCGC	GCGGCACGACGACTATTCCACT
	827	ACTCGCCTATTACCGCTGGATTGG	CCAATCCAGCGGTAATAGGCGAGT
	828	GAGACCGGATTGAGATGATCCCGT	ACGGGATCATCTCAATCCGGTCTC
	829	CTGGCAGTTTACCACCGAACCAGT	ACTGGTTCGGTGGTAAACTGCCAG
	830	TTACATTGCCGATTTCGCATGTGA	TCACATGCGAAATCGGCAATGTAA
15	831	TAAAACTGAAGGGTCGCCTCAGCA	TGCTGAGGCGACCCTTCAGTTTTA
	832	GGCTTCGCATGCCTTTGCAACATT	AATGTTGCAAAGGCATGCGAAGCC
	833	AAGACCGAAGGTCTCTCTGAGGGC	GCCCTCAGAGAGACCTTCGGTCTT
	834	GCCTATGGCTCCAGCTCAGCAGTA	TACTGCTGAGCTGGAGCCATAGGC
	835	CGTATCATAGCGTTCGGTGGACAA	TTGTCCACCGAACGCTATGATACG
20	836	CATGCGCTCGCACTCTGCCTGTCT	AGACAGGCAGAGTGCGAGCGCATG
	837	TGGGCAATTCGGAAACGTCGGTCT	AGACCGACGTTTCCGAATTGCCCA
	838	TTGCGGAGATGCGACGGTACATTG	CAATGTACCGTCGCATCTCCGCAA
	839	ACTTTCGCACGTCGATCTGGACTG	CAGTCCAGATCGACGTGCGAAAGT
	840	CTAACTGCCGCGGCAAACTGATTA	TAATCAGTTTGCCGCGGCAGTTAG
25	841	GGCCGCGGATTTTATTCCTTGGAT	ATCCAAGGAATAAAATCCGCGGCC
	842	GAATTTGGAACGGTGTTCCGATGA	TCATCGGAACACCGTTCCAAATTC
	843	GTCCATCCATCTACGGCATCAGGA	TCCTGATGCCGTAGATGGATGGAC
	844	TAAACGACCTGGCACATGTGCGTA	TACGCACATGTGCCAGGTCGTTTA
	845	CACCATCCAAGAGCCAATCCTAGG	CCTAGGATTGGCTCTTGGATGGTG
30	846	ACTCATATACGATCAGTCCGCCGC	GCGGCGGACTGATCGTATATGAGT
	847	GTGCCAACCGACGATCAACCGAAC	GTTCGGTTGATCGTCGGTTGGCAC
	848	TGGGGTTCGTACAGGTCGGTTCAT	ATGAACCGACCTGTACGAACCCCA
	849	AACAGTAGAGGCGAGGCCTGCGGG	CCCGCAGGCCTCGCCTCTACTGTT
	850	TGCATCGAATCCGAGATGGATCTT	AAGATCCATCTCGGATTCGATGCA
35	851	GCGTCACGTTATGTCCGCTCTGTC	GACAGAGCGGACATAACGTGACGC
	852	GGGACATGCGTAGCGCAATATCAC	GTGATATTGCGCTACGCATGTCCC
	853	CACACGTCACACCATCCAAAGTGG	CCACTTTGGATGGTGTGACGTGTG
	854	ATGCTCAGGTGCTAAATACGGCCA	TGGCCGTATTTAGCACCTGAGCAT
	855	AAAAATGTTTAGCGCGCTGACTGG	CCAGTCAGCGCGCTAAACATTTTT
40	856	ATAGTCCGTTCCCAACGA	TCGTTGGGAACGGAAACGGACTAT
	857	TCGATCTTCTGGGTTGCAGACCAG	CTGGTCTGCAACCCAGAAGATCGA

	858	GTCGGCGCAGCCGATCCTCATGTC	GACATGAGGATCGGCTGCGCCGAC
	859	GTTGCGGGGTGTCGAAAAGGATCT	AGATCCTTTTCGACACCCCGCAAC
	860	ATCTCTTCCTCGGGTGGATGCCAG	CTGGCATCCACCCGAGGAAGAGAT
	861 .	TGATGTGCGTTTCAGCTTTTCGCG	CGCGAAAAGCTGAAACGCACATCA
5	862	GTTAAGGGGTGAGAACATCCGGCC	GGCCGGATGTTCTCACCCCTTAAC
	863	AAGTCGTCTCCCTGCGTCTCGTCC	GGACGAGACGCAGGGAGACGACTT
	864	CCGACCTAATAAGGCGCAACAATG	CATTGTTGCGCCTTATTAGGTCGG
	865	CATCATTGGCACCGTACCAATGCC	GGCATTGGTACGGTGCCAATGATG
	866	TGGAGAAAGGGAAGTGCAGCAACG	CGTTGCTGCACTTCCCTTTCTCCA
10	867	TGGTACTCCTTGTCATGCCTGCCA	TGGCAGGCATGACAAGGAGTACCA
	868	GGCACAGGTTCTCTTGCAGCGCGG	CCGCGCTGCAAGAGAACCTGTGCC
	869	GAATCTGGGCATTGCTACGAGACC	GGTCTCGTAGCAATGCCCAGATTC
	870	CGAAATGGGAGCGTCCACTACCAC	GTGGTAGTGGACGCTCCCATTTCG
	871	ACATATGAGCTCGCGTGCTTGCAT	ATGCAAGCACGCGAGCTCATATGT
15	872	TCGAGCACGGTCACTGATAAAGCC	GGCTTTATCAGTGACCGTGCTCGA
	873	GAGGGTCCCTGCTCAGAGTTGGTT	AACCAACTCTGAGCAGGGACCCTC
	874	AAATGCGATCGCCCCTTATGGAAT	ATTCCATAAGGGGCGATCGCATTT
	875	CTACCCGAATGGATTGCGGATGGC	GCCATCCGCAATCCATTCGGGTAG
	876	AGGGACTGGCAGGTCTCTGCGCGT	ACGCGCAGAGACCTGCCAGTCCCT
20	877	TAACGATCCATTCCACGAATGCAG	CTGCATTCGTGGAATGGATCGTTA
	878	GGCCGCACGTACGATTACGCCTTG	CAAGGCGTAATCGTACGTGCGGCC
	879	TGGGGAATGCATCAGTTGTTGGCT	AGCCAACAACTGATGCATTCCCCA
	880	TATCTGGGAGTAGCAGGCAGGCC	GGCCCTGCCTGCTACTCCCAGATA
	881	CCGAAGGTTTCACGCTCAGGTCGC	GCGACCTGAGCGTGAAACCTTCGG
25	882	GAACCCAGCTGGGACATCCTTCAG	CTGAAGGATGTCCCAGCTGGGTTC
	883	TGCATGCGAGCAAATAACCCGGAC	GTCCGGGTTATTTGCTCGCATGCA
	884	AATTGTCCGCCAAACGCTTTTCAG	CTGAAAAGCGTTTGGCGGACAATT
	885	GTCGGCTTCGAGCGATCGAGTGTG	CACACTCGATCGCTCGAAGCCGAC
	886	TCGCGTGCTCTACGTAGCCCATGA	TCATGGGCTACGTAGAGCACGCGA
30	887	GGCTTCCGCGATAACGTAATTCGC	GCGAATTACGTTATCGCGGAAGCC
	888	TGTAGCCGACTAGGGCCGAAGCCC	GGGCTTCGGCCCTAGTCGGCTACA
	889	AAGCGAACGCCCTGGCTGAATATT	AATATTCAGCCAGGGCGTTCGCTT
	890	TGTCACGCGACGTGCTGCAGATTT	AAATCTGCAGCACGTCGCGTGACA
	891	CCGTGTCCGTGTTGTCGACAGGCG	CGCCTGTCGACAACACGGACACGG
35	892	CCCCACACGTTGCGCCTATATGTG	CACATATAGGCGCAACGTGTGGGG
	893	GGCGGCACAACTCAACACAGATG	CATCTGTGTTGAGTTGTGCCCGCC
	894	CGACTGCGGGATCACCGGTGATTA	TAATCACCGGTGATCCCGCAGTCG
	895	TCGGGACATGACCGGTACGGAGTC	GACTCCGTACCGGTCATGTCCCGA
	896	TACCTCGAGTGGCCGTTGATCGGG	CCCGATCAACGGCCACTCGAGGTA
40	897	TAATTCATGGGGCTAGCCGAACCA	TGGTTCGGCTAGCCCCATGAATTA
	898	ACACTCTAAGCCGATTCCGTTCGA	TCGAACGGAATCGGCTTAGAGTGT

	899	GTGGGCGTGAGTGACACGCACAAA	TTTGTGCGTGTCACTCACGCCCAC
	900	ACGACTCCTCGGGCAAAGTACGTA	TACGTACTTTGCCCGAGGAGTCGT
	901	TGTGGTCATGGCGCTACTGTTTTC	GAAAACAGTAGCGCCATGACCACA
	902	CTTTCGCTAGCCAGAGCGGGTTCC	GGAACCCGCTCTGGCTAGCGAAAG
5	903	ACAGGCGTGTTAGCGTGTGACAA	TTGTCACACGCTAACACGCCCTGT
	904	GGTACTTCCGGCGTATCGGGCCAC	GTGGCCCGATACGCCGGAAGTACC
	905	GTGGGTTTTGTTCACCCTTCTGGG	CCCAGAAGGGTGAACAAAACCCAC
	906	ACGCAATTCCGCATTACTTACCCG	CGGGTAAGTAATGCGGAATTGCGT
	907	CGCCTCGACTGCGGTCAAGCACAA	TTGTGCTTGACCGCAGTCGAGGCG
10	908	GTGAAATGGATCCAGAGAGGGCCA	TGGCCCTCTCTGGATCCATTTCAC
	909	TATAAACGCTGCAGGGCTCCGTTA	TAACGGAGCCCTGCAGCGTTTATA
	910	GTTATTCAGGCGGCTTGTAACGGG	CCCGTTACAAGCCGCCTGAATAAC
	911	GGGTTCTAGCGTGCGCGTTCAGTT	AACTGAACGCGCACGCTAGAACCC
,	912	TTGGGCTCGAGCGGTACACCACTA	TAGTGGTGTACCGCTCGAGCCCAA
.15	913	CCGTCTTCAGGACAACGGTATGCG	CGCATACCGTTGTCCTGAAGACGG
	914	GGACCCTTTGACAGATTGCGGCAC	GTGCCGCAATCTGTCAAAGGGTCC
	915	TAAATTTTATCGCCAGGCGGCGCT	AGCGCCGCCTGGCGATAAAATTTA
	916	GCCGAACGCAAGATCGCTTGAACT	AGTTCAAGCGATCTTGCGTTCGGC
	917	TAGGCCATTGGTGCCCTAAGACGG	CCGTCTTAGGGCACCAATGGCCTA
20	918	CAAACCACAGCTTACAGGCTGCGT	ACGCAGCCTGTAAGCTGTGGTTTG
	919	TAAACGGAGACTGGCACGGTAGCA	TGCTACCGTGCCAGTCTCCGTTTA
	920	TAGCGCGCATCACACTTGGAATCG	CGATTCCAAGTGTGATGCGCGCTA
	921	TGCTGACACAAACGAGCCGTTTCG	CGAAACGGCTCGTTTGTGTCAGCA
	922	CGCTTAACGGCATTGACTGTCCAC	GTGGACAGTCAATGCCGTTAAGCG
25	923	TTCCACGGCCGTGTATTACGGATA	TATCCGTAATACACGGCCGTGGAA
	924	TTTATGCCGTTGCCGAGGAAGACT	AGTCTTCCTCGGCAACGGCATAAA
	925	AGTGCCGAGATAGGGGACTGGGCG	CGCCCAGTCCCCTATCTCGGCACT
	926	CTAGTCTCCACGCCCTCGGGACGA	TCGTCCGAGGGCGTGGAGACTAG
	927	CCGCCATTCGGAAGATGGATGATG	CATCATCCATCTTCCGAATGGCGG
30	928	TGACGGTGAAAGTCGATTGCGAAG	CTTCGCAATCGACTTTCACCGTCA
	929	ATATGCGTCACCACCCGGTTCCGA	TCGGAACCGGGTGGTGACGCATAT
	930	CCATCAGTGAAGGGGTTGCTGCCA	TGGCAGCAACCCCTTCACTGATGG
	931	CATATGTGCTTGGCTTGCGATGAC	GTCATCGCAAGCCAAGCACATATG
	932	TCTGCTTTGGAAGCCTGAACTGCT	AGCAGTTCAGGCTTCCAAAGCAGA
35	933	CGATTTGGTCAAGAAGGCGGAAAT	ATTTCCGCCTTCTTGACCAAATCG
	934	ATCAGAGGCCTTCCCGCCTCGTTA	TAACGAGGCGGGAAGGCCTCTGAT
	935	ATTGTTGTCGTTGCCACATCGCAG	CTGCGATGTGGCAACGACAACAAT
	936	TGAAATGTGTCTGGACGCGAGTCT	AGACTCGCGTCCAGACACATTTCA
	937	GCGGCGATGCTCCTTAAAGGGTA	TACCCTTTAAGGAGCATCGCCCGC
40	938	CCGCAATCTCCATGCGTCGACCGT	ACGGTCGACGCATGGAGATTGCGG
	939	TGCCGCGTAATCACCTGGAACTTG	CAAGTTCCAGGTGATTACGCGGCA

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	940	TTCCAGTAGCCAGCGGTAGTGTGA	TCACACTACCGCTGGCTACTGGAA
	941	CTGAATTCCGCCTATTGTTCGGCA	TGCCGAACAATAGGCGGAATTCAG
	942	GCTTGAACCTCGAGGCGATGTTCT	AGAACATCGCCTCGAGGTTCAAGC
	943	CAAGCGTGGAAGTACGACCCGCCA	TGGCGGGTCGTACTTCCACGCTTG
5	944	GTGTGCACTGGATCCGAGCCCTAG	CTAGGGCTCGGATCCAGTGCACAC
	945	TCCCTGGGCTAGCATTGCGAGGTT	AACCTCGCAATGCTAGCCCAGGGA
	946	AGAACCAAAGACGCTTGTTTGCCG	CGGCAAACAAGCGTCTTTGGTTCT
	947	CGTCACATGCAAACGTTCCCTCCC	GGGAGGGAACGTTTGCATGTGACG
	948	TGACCGCATGTGTATTGAGTCGCT	AGCGACTCAATACACATGCGGTCA
10	949	GCGGGCCCAATGAGTATCCGTCAT	ATGACGGATACTCATTGGGCCCGC
	950	TAGTGACTGTGAACGCCCCTGGTT	AACCAGGGGCGTTCACAGTCACTA
	951	GGCACCGTCTGCCGCGCGTATATC	GATATACGCGCGGCAGACGGTGCC
	952	TCGATGCAGTCTTTTTCCCGTCAA	TTGACGGGAAAAAGACTGCATCGA
	953 .	ACCCGTGGGGTTTCGCCATTTTT	AAAAATGGCGAAACCCCACGGGGT
15	954	CTACACGCGCAGTTGTGACTTGTG	CACAAGTCACAACTGCGCGTGTAG
	955	CGCAGCGACCTCATCTCTGGAGCC	GGCTCCAGAGATGAGGTCGCTGCG
	956	CGACCCAGCACTCCTAAAATCGGT	ACCGATTTTAGGAGTGCTGGGTCG
	957	ACGCGCCGCTCATCACTACAATCT	AGATTGTAGTGATGAGCGGCGCGT
	958	CGCAACTTCCTGTGGCAAAGCCAG	CTGGCTTTGCCACAGGAAGTTGCG
20	959	TCGTTGGGCACATAAGGCAACTGA	TCAGTTGCCTTATGTGCCCAACGA
•	960	CCGCTTGTAATTGCCATTCTCCGT	ACGGAGAATGGCAATTACAAGCGG
	961	GTAACCAGGGAGTCCTGGGCTGTG	CACAGCCCAGGACTCCCTGGTTAC
	962	AGCGCAAGATCTGGGGGCAGTCAC	GTGACTGCCCCAGATCTTGCGCT
	963	GCGTACATCTGCTCATCAGCATGG	CCATGCTGATGAGCAGATGTACGC
25	964	CCTCTGTGGCAGGAAAGAAACCGT	ACGGTTTCTTTCCTGCCACAGAGG
	965	CCTATGCAATGGACCTGCATCGGA	TCCGATGGAGGTCCATTGCATAGG
	966	CTCGGTGGATGGCGAATAAGGATA	TATCCTTATTCGCCATCCACCGAG
• ,	967	CCTCACTCGTGATGGCGTGACGCA	TGCGTCACGCCATCACGAGTGAGG
	968	TACGCTCACAGAACGCCATACGCC	GGCGTATGGCGTTCTGTGAGCGTA
30	969	CCGGAGAAGTTACGCGGATCGGAC	GTCCGATCCGCGTAACTTCTCCGG
	970	GCGCCCTCACTGCATTTTTGGTAT	ATACCAAAAATGCAGTGAGGGCGC
	971	ACTTTCAGCACGCGAACAGCGCAA	TTGCGCTGTTCGCGTGCTGAAAGT
	972	CTAAACGCCCTTGATGCATGAGCA	TGCTCATGCATCAAGGGCGTTTAG
	973	GCTTGCCTTTTACGATCGTCGCTA	TAGCGACGATCGTAAAAGGCAAGC
35	974	CAGACATCGTACGCACTCGGCATC	GATGCCGAGTGCGTACGATGTCTG
	975	TAGCCGCGCGCTCCTATGCTCTT	AAGAGCATAGGAGCCGCGCGCTA
	976	GATGCCCTTTTGGTCCCCATGCCA	TGGCATGGGGACCAAAAGGGCATC
	977	TGAGCTGCCTTGCCACGATGCCTC	GAGGCATCGTGGCAAGGCAGCTCA
	978	CCGCCGTATACGTGCCATAGTTTG	CAAACTATGGCACGTATACGGCGG
40	979	TAGTGCTCTCCGCGCTCATCCAAC	GTTGGATGAGCGCGGAGAGCACTA
	980	CCCTAGATAAGTTGGGGTGGGACG	CGTCCCACCCAACTTATCTAGGG

,	981	TGAAGGCCACCTGATATGGTTTC	GAAACCATATCAGGTGGCCCTTCA
	982	GCCGCCTCCGACTGGTTAACCCGA	TCGGGTTAACCAGTCGGAGGCGGC
'	983	CGCACGGCTACTAACAGCGGATCA	TGATCCGCTGTTAGTAGCCGTGCG
	984	CCGGACCAATTCCAACGAGCATCG	CGATGCTCGTTGGAATTGGTCCGG
5	. 985	CATTGAGGTCCACCGTTCACATCC	GGATGTGAACGGTGGACCTCAATG
	986	AGGACGCAGCATGTCCCAGCCGAG	CTCGGCTGGGACATGCTGCGTCCT
	987	TAATCGCGGGCCATACTACCAACG	CGTTGGTAGTATGGCCCGCGATTA
	988	CGCAAATTTCTCCGGTCGGCAAGC	GCTTGCCGACCGGAGAAATTTGCG
:	989	GTGGCTCGACTAATGCCTTGCGTG	CACGCAAGGCATTAGTCGAGCCAC
10	990	TGTGGGCGTGTTCCGGCTCACTGT	ACAGTGAGCCGGAACACGCCCACA
	991	GTTCTTCCTTTTCTGCGGTGGGAA	TTCCCACCGCAGAAAAGGAAGAAC
	992	ACCTCGAGTCAGATTGTGCGCCTT	AAGGCGCACAATCTGACTCGAGGT
	993	CAAGTGGACAGACGGTTTGTTCCG	CGGAACAAACCGTCTGTCCACTTG
	994	TCCAGTTGAGTCGCGCCGACGAGG	CCTCGTCGGCGCGACTCAACTGGA
15	995	CGCAACAGGTCAGCCCTTATTTGC	GCAAATAAGGGCTGACCTGTTGCG
	996	GCCGTGACTCCTGCAATGTCGGTA	TACCGACATTGCAGGAGTCACGGC
	997	ATCAGCGCAAGCTGGTCTGAAACA	TGTTTCAGACCAGCTTGCGCTGAT
	998	CCCTGGCCAGAACGAGAGGCCATG	CATGGCCTCTCGTTCTGGCCAGGG
	999	ACGATCAAGGACTCGTCAGGGTTG	CAACCCTGACGAGTCCTTGATCGT
20	1000	TTCATGGCACCAAGACCACCGTTA	TAACGGTGGTCTTGGTGCCATGAA
	1001	ACAGCAAGGAGATGGATTGCGACG	CGTCGCAATCCATCTCCTTGCTGT
	1002	CGTAAATATCTGCGGCGGTGTGAA	TTCACACCGCCGCAGATATTTACG
	1003	GGAAACACGTGTTCGTCTGTTGGC	GCCAACAGACGAACACGTGTTTCC
	1004	CGATGTTAGGATTCGGATAGGCCA	TGGCCTATCCGAATCCTAACATCG
25	1005	ATCGGACAAGGACAAGTGGATGGT	ACCATCCACTTGTCCTTGTCCGAT
	1006	GCCCGGAGGACAAAGTTCGAGTTA	TAACTCGAACTTTGTCCTCCGGGC
	1007	AAATCCGACAAATGGGCACATGGA	TCCATGTGCCCATTTGTCGGATTT
	1008	CAGTTAGGGGATGCGGATGAGTGA	TCACTCATCCGCATCCCCTAACTG
	1009	CGGCAGGTGGAGATTCCGACATTG	CAATGTCGGAATCTCCACCTGCCG
30	1010	TAGGGCAGCCAGGTTCACTCATCT	AGATGAGTGAACCTGGCTGCCCTA
	1011	GCACCGTATTAGCAGTAGGCACGC	GCGTGCCTACTGCTAATACGGTGC
	1012	ACGCATTACAGGTGTGCGAAGGGA	TCCCTTCGCACACCTGTAATGCGT
	1013	CGTGACTGCACGTGTTCCACAGGG	CCCTGTGGAACACGTGCAGTCACG
	1014	GCTGAACTACCGCCTAAAATCGCG	CGCGATTTTAGGCGGTAGTTCAGC
35	1015	AGCACGCCAGGGAGGATCGAGTTA	TAACTCGATCCTCCCTGGCGTGCT
	1016	ATGAGGGCAAGGAATGGGTCATGC	GCATGACCCATTCCTTGCCCTCAT
	1017	GGGTCTCTCGTAATCAAAGGCCGA	TCGGCCTTTGATTACGAGAGACCC
	1018	TATCTTGCGCAACGCCTCCATTTA	TAAATGGAGGCGTTGCGCAAGATA
	1019	GGTTACACCTACGGAATCCAGCGG	CCGCTGGATTCCGTAGGTGTAACC
40	1020	ACACCGAGTTGGTCCGGTCAATAG	CTATTGACCGGACCAACTCGGTGT
	1021	TCCCAGATTAAACGCTAGCCACCG	CGGTGGCTAGCGTTTAATCTGGGA

	1022	TTGGTGAAACTGGCCCGTCGGAAG	CTTCCGACGGGCCAGTTTCACCAA
	1023	CCAGGGAGTTGACAATGAGGCTG	CAGCCTCATTGTCAACTCCCCTGG
	1024	TCTGCGTTATTGGACCGTTTGTCG	CGACAAACGGTCCAATAACGCAGA
	1025	TATGGGATGCTAAACCGGCGTACA	TGTACGCCGGTTTAGCATCCCATA
5	1026	CACAGACGTCTGTCGGGCTTGTGT	ACACAAGCCCGACAGACGTCTGTG
	1027	AGAATGCCGTTCGCCTACTCCCGT	ACGGGAGTAGGCGAACGGCATTCT
	1028	CGACGGATAATGCAGGCCTCATGA	TCATGAGGCCTGCATTATCCGTCG
	1029	ACCCTCTAAAGCAATAGGTCGGCG	CGCCGACCTATTGCTTTAGAGGGT
	1030	CACTCACGGCAGAAGCCTGCTTGT	ACAAGCAGGCTTCTGCCGTGAGTG
10	1031	ATCAGCCCACATATTCTCGGCCGT	ACGGCCGAGAATATGTGGGCTGAT
	1032	CAAATCTGGGGTCGTCCTAAACGC	GCGTTTAGGACGACCCCAGATTTG
	1033	TGTCGCCCATGGCAGGTTAAATAC	GTATTTAACCTGCCATGGGCGACA
	1034	GGGGCCCATCAATTCATTATCGA	TCGATAATGAATTGATGGGCCCCC
	1035	GTCGAGCAGCTTTAGTATCGCGGG	CCCGCGATACTAAAGCTGCTCGAC
15	1036	CCGCTAAGCACCGAAGGCTCACAA	TTGTGAGCCTTCGGTGCTTAGCGG
	1037	TAGAATTAGCGAACGGTGATCCCG	CGGGATCACCGTTCGCTAATTCTA
	1038	CACATGACATTTGGCAAAGGTCCA	TGGACCTTTGCCAAATGTCATGTG
	1039	TCAACGCACTGGCGATGACTAGAT	ATCTAGTCATCGCCAGTGCGTTGA
•	1040	CGGGAAATGTCTTTAGCCGTCGAA	TTCGACGGCTAAAGACATTTCCCG
20	1041	ATCAGAGCAAATCTGCAGCGGGGA	TCCCGCTGCAGATTTGCTCTGAT
	1042	GGCCTGTTTCTGTCCAACTGGGCT	AGCCCAGTTGGACAGAAACAGGCC
	1043	ATTTCACCTCGCTGATCGCTTCCG	CGGAAGCGATCAGCGAGGTGAAAT
	1044	AGTGACGCCGAGTCGCGAGGGTTA	TAACCCTCGCGACTCGGCGTCACT
	1045	AGTTGTCTCATCCTGTCCGGGACC	GGTCCCGGACAGGATGAGACAACT
25	1046	CTTCTTTGTGCACACTTGCCAGGG	CCCTGGCAAGTGTGCACAAAGAAG
	1047	CACCTCATCGGAGCATAGCAACCC	GGGTTGCTATGCTCCGATGAGGTG
	1048	ATGCGATCCATGACAAGGGTTGCT	AGCAACCCTTGTCATGGATCGCAT
	1049	CCCGTGGAGATGATGTGCGGCTTA	TAAGCCGCACATCATCTCCACGGG
	1050	CCCAATAGACGCCACAGCCAGTGA	TCACTGGCTGTGGCGTCTATTGGG
30	1051	AACGACCACGACCCTCGCCGAGTA	TACTCGGCGAGGGTCGTGGTCGTT
	1052	GGTGCTTTGTCTGAGGCGAGTGAA	TTCACTCGCCTCAGACAAAGCACC
	1053	CTGTCGGCGCTGCTCTCCGAATTT	AAATTCGGAGAGCAGCGCCGACAG
	1054	CTCGCCGGAGTGTTGTAAGCATTG	CAATGCTTACAACACTCCGGCGAG
	1055	AGCAATCATGAGAGGTGGCCGGTG	CACCGGCCACCTCTCATGATTGCT
<b>3</b> 5	1056	ATTTGCCACCGGCGACAAAAGAT	ATCTTTTTGTCGCCGGTGGCAAAT
	1057	CCGCCCGTGTTGGCATGTCTTTTG	CAAAAGACATGCCAACACGGGCGG
	1058	ATCGGAAGTGCTGACTGACACACG	CGTGTGTCAGTCAGCACTTCCGAT
	1059	CCTCAGACCCTATCTGGGTTGACG	CGTCAACCCAGATAGGGTCTGAGG
	1060	CTGTGTGGTCTGGTCCGGCTGTTC	GAACAGCCGGACCAGACCACAG
40	1061	GTCCCCATTATCGGTGAGTGCAAC	GTTGCACTCACCGATAATGGGGAC
	1062	ACAGGCACGTAAGTGCTCAATCGG	CCGATTGAGCACTTACGTGCCTGT

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	1063	AGCAAGATAGCGGGAGTGCCCCTA	TAGGGGCACTCCCGCTATCTTGCT
	1064	GGTTTACGCCATGACATCCCGTCA	TGACGGGATGTCATGGCGTAAACC
	1065	GTGCAGGCCTTTGTGTGTGAATCG	CGATTCACACACAAAGGCCTGCAC
•	1066	CTTCGAGGGTAGGGCTTCGAAACG	CGTTTCGAAGCCCTACCCTCGAAG
5	1067	AGTCGACACTTGGGTTTACCACGG	CCGTGGTAAACCCAAGTGTCGACT
	1068	ACATAAATCTCGCCCGCTGCACTC	GAGTGCAGCGGGCGAGATTTATGT
	1069	GTTTGGTTTTCCACGGAGGTTTGA	TCAAACCTCCGTGGAAAACCAAAC
	1070	GCAGGAACCAGATTAGTGTCCCGG	CCGGGACACTAATCTGGTTCCTGC
	1071	TTTGCTAGAGCGCGGAGCTAAAGC	GCTTTAGCTCCGCGCTCTAGCAAA
10	1072	CTATGTGGCATCGCTGACATGCTC	GAGCATGTCAGCGATGCCACATAG
	1073	CCTAAGTCGGTTTGCAGCTGCTCT	AGAGCAGCTGCAAACCGACTTAGG
	1074	GCGTTCGTCCACAGGAACGGAAGG	CCTTCCGTTCCTGTGGACGAACGC
	1075	TAACCCGCGCCCGAGAAATTGTCT	AGACAATTTCTCGGGCGCGGGTTA
	1076	TATGGTGCTCAGAGCTGTTGCCAA	TTGGCAACAGCTCTGAGCACCATA
<b>1</b> 5	1077	TCATCGACCCACTAACGTCAGGGC	GCCCTGACGTTAGTGGGTCGATGA
	1078	TGCTCAAGCTACGCGTCACTTCCC	GGGAAGTGACGCGTAGCTTGAGCA
	1079	AGCGGGAAGGTCTGAGGAGGGAAA	TTTCCCTCCTCAGACCTTCCCGCT
	1080	CCGATGTAGCACCACCGCAGTGGC	GCCACTGCGGTGGTGCTACATCGG
	1081	AAGTTCTGGGAATCACACGGCGCG	CGCGCCGTGTGATTCCCAGAACTT
20	1082	CACCAGCCTTACGTGCGGCGTTAA	TTAACGCCGCACGTAAGGCTGGTG
	1083	CGTTTCGCCTCCTCTTCCGAATGC	GCATTCGGAAGAGGAGGCGAAACG
	1084	GAGGAGGCCAATAGAGCAGCGCGC	GCGCGCTGCTCTATTGGCCTCCTC
	1085	AGTAATCTTGCGGCACACAAGCGG	CCGCTTGTGTGCCGCAAGATTACT
	1086	TGAGGACAAACCGCGCGTAGGATA	TATCCTACGCGCGGTTTGTCCTCA
25	1087	TCGTAGAGACGCAGTGCCCATCTC	GAGATGGGCACTGCGTCTCTACGA
	1088	CGAAGCTACACCCCGAGTGCGGTG	CACCGCACTCGGGGTGTAGCTTCG
	1089	ATGATGTGATCTTCCCATGGCTGG	CCAGCCATGGGAAGATCACATCAT
	1090	TGTACACGTATCGCGTTCGCCTAG	CTAGGCGAACGCGATACGTGTACA
	1091	GGTGTGCTTTTACGCATGTACGCA	TGCGTACATGCGTAAAAGCACACC
30	1092	AGGCGGGATACGTGGATGCTAGCC	GGCTAGCATCCACGTATCCCGCCT
	1093	AAATTAGGCACAGCCCTCCCACAG	CTGTGGGAGGGCTGTGCCTAATTT
	1094	ATAAGTTTGGTGAGCCATTCGCGA	TCGCGAATGGCTCACCAAACTTAT
	1095	CCTATTTCGGCGGACCTCGATGCC	GGCATCGAGGTCCGCCGAAATAGG
	1096	TTACCGGAATATGCACTTGGCCGC	GCGGCCAAGTGCATATTCCGGTAA
35	1097	CCTCTCGGACGGTCCCTTTGATCG	CGATCAAAGGGACCGTCCGAGAGG
	1098	CAAGCGAATGCTGTATTACGGCCT	AGGCCGTAATACAGCATTCGCTTG
	1099	GCATTTCCCATGCCAGAACGTTGA	TCAACGTTCTGGCATGGGAAATGC
	1100	GTTTTGGCTAACCGTCCTGCCTTG	CAAGGCAGGACGGTTAGCCAAAAC
	1101	AGGTTTTGTCCGGGCGAATGATGT	ACATCATTCGCCCGGACAAAACCT
40	1102	ATGTCCACGAGTGCGTCCGATATC	GATATCGGACGCACTCGTGGACAT
	1103	AGACGCGTACGAGGGTTCTGCGCC	GGCGCAGAACCCTCGTACGCGTCT

	1104		COTOCOLOGOATOCOLACOCOTATT
	110-4	AATACCGTTCCCATCTGTGCGAGG	CCTCGCACAGATGGGAACGGTATT
	1105	ACACAAGGTGCCTCATCGAATGGT	ACCATTCGATGAGGCACCTTGTGT
	1106	GCCGGCAAAATCCTACAAAATCCA	TGGATTTTGTAGGATTTTGCCGGC
	1107	CTTATCCCATGTGCCGGTCTGACT	AGTCAGACCGGCACATGGGATAAG
5	1108	GCGGCCATAATGCATAGCACGGAA	TTCCGTGCTATGCATTATGGCCGC
	1109	TACGGTGCATCGCAGTATGGGTAA	TTACCCATACTGCGATGCACCGTA
	1110	CACCAGATGTCGAGGATCATCGCC	GGCGATGATCCTCGACATCTGGTG
	1111	GCTCCTACGCCCAAAGAGGTATGG	CCATACCTCTTTGGGCGTAGGAGC
	1112	AGAATATGGGCAGCAGCACTC	GAGTGCTGCTGCCCATATTCT
10	1113	CTGCAGTCGCACGCAGTAGACCCG	CGGGTCTACTGCGTGCGACTGCAG
	1114	ATGTCCCTGACCGGAATCTTTCCA	TGGAAAGATTCCGGTCAGGGACAT
	1115	TTCGCCACGAGGCATTAGTCCGAC	GTCGGACTAATGCCTCGTGGCGAA
	1116	ACGTCGTTCCCGAGAATACGGTCT	AGACCGTATTCTCGGGAACGACGT
	1117	ATCCGCTGGCGCTTTGACGAAGAA	TTCTTCGTCAAAGCGCCAGCGGAT
15	1118	TGAACCAAATTCTTACCGCGTGGA	TCCACGCGGTAAGAATTTGGTTCA
	1119	CACGCGTAGGCTGGTGTCATTC	GAATGACACACCAGCCTACGCGTG
	1120	TCGATCCCGCGATCTGGCCTATTG	CAATAGGCCAGATCGCGGGATCGA
	1121	GGAACACTCAACCACCGTGGATCT	AGATCCACGGTGGTTGAGTGTTCC
	1122	TCACACCCAACTGGCCACAGATG	CATCTGTGGCCAGTTGGTGTGTGA
20	1123	TGTGCTTAGGACACCAGGCAACCC	GGGTTGCCTGGTGTCCTAAGCACA
	1124	GACATTTAACCCGACCGATTGTGC	GCACAATCGGTCGGGTTAAATGTC
	1125	GGCACCGAGCCAGTAGGCCTCTGA	TCAGAGGCCTACTGGCTCGGTGCC
	1126	CTCAAGCGTGCATGTTGGTAACCA	TGGTTACCAACATGCACGCTTGAG
	1127	AGGAAGGCCACCATCCAATATTCG	CGAATATTGGATGGTGGCCTTCCT
25	1128	TACGAACGCCAAGGTTATGCCAAT	ATTGGCATAACCTTGGCGTTCGTA
	1129	CGCACCAGAGTTATGCAGGCTCAA	TTGAGCCTGCATAACTCTGGTGCG
	1130	CCAGCTTGGACGAGGAAGGATGTG	CACATCCTTCCTCGTCCAAGCTGG
	1131	GTCACGCCTTTCAAATGACCCACA	TGTGGGTCATTTGAAAGGCGTGAC
	1132	TGCTAGACCCAGCCCGAGTCTCGG	CCGAGACTCGGGCTGGGTCTAGCA
30	1133	TATTGTGGCACTTGGGTCCAGTGC	GCACTGGACCCAAGTGCCACAATA
	1134	CACGTGTGAGACCGGAAGTGCATC	GATGCACTTCCGGTCTCACACGTG
	1135	GGCAGCCTGATGCTACAGCACCGT	ACGGTGCTGTAGCATCAGGCTGCC
	1136	CGGTCCGTCCATCCTTCAGAGTTA	TAACTCTGAAGGATGGACGGACCG
	1137	CTATTCGCGGACCCTACGCAGTTT	AAACTGCGTAGGGTCCGCGAATAG
35	1138	ACCTGTGCAGTCAGCACGAGTGCG	CGCACTCGTGCTGACTGCACAGGT
	1139	GAGAACCACAGGTGGTCCACCCTA	TAGGGTGGACCACCTGTGGTTCTC
	1140	CCTCGCTAGAGAAATCCACGGGAT	ATCCCGTGGATTTCTCTAGCGAGG
	1141	TAACATCGGTGCAAACCGTGGCGC	GCGCCACGGTTTGCACCGATGTTA
	1142	ACCCAGAAGACATGGCATTCGCCT	AGGCGAATGCCATGTCTTCTGGGT
40	1143	AAAAGCGCTGCTCTAACACCGCCG	CGGCGGTGTTAGAGCAGCGCTTTT
	1144	CAAGTCTGTCCATTTCCCAACGGT	ACCGTTGGGAAATGGACAGACTTG

	1145	CCGACACATGGTGGGCTTTTTAAG	CTTAAAAAGCCCACCATGTGTCGG
	1146	ACAGACCAGCTTTTTGCGCAGATT	AATCTGCGCAAAAAGCTGGTCTGT
	1147	CGGCGATCCATTTCACTTCAAAGT	ACTITGAAGTGAAATGGATCGCCG
	1148	GACGTTATCATGACACAGGTCGCG	CGCGACCTGTGTCATGATAACGTC
5	1149	GGCAGAGTTGGATCGGATCCTCAA	TTGAGGATCCGATCCAACTCTGCC
	1150	CCTCAATGCCACCGAATTCGGTAT	ATACCGAATTCGGTGGCATTGAGG
	1151	GGAGTTAGCGTGATTAGTCGCCCA	TGGGCGACTAATCACGCTAACTCC
	1152	GAACTCGACGTGTCACGGAAGGGT	ACCCTTCCGTGACACGTCGAGTTC
	1153	CACAAGCGACATTTCTGGTGCACG	CGTGCACCAGAAATGTCGCTTGTG
10	1154	CCAGAATGCGTGAATTCGCGTCCT	AGGACGCGAATTCACGCATTCTGG
	1155	CAAGGGAGCCCTGCGAATTAGAGT	ACTCTAATTCGCAGGGCTCCCTTG
	1156	ATTCTTGCTTCGGACGACTAGCCG	CGGCTAGTCGTCCGAAGCAAGAAT
	1157	TGCCACTTTGATTTCCAGATTGCC	GGCAATCTGGAAATCAAAGTGGCA
	1158	GATGGTCGGCAGATAAGTGGTGGG	CCCACCACTTATCTGCCGACCATC
15	1159	GTTCACACGGGTTGACCAACATGT	ACATGTTGGTCAACCCGTGTGAAC
	1160	GATTCAATTGCCCCATTCCTGCAT	ATGCAGGAATGGGGCAATTGAATC
	1161	TACCGGAAACTGAGCCTCGTGCTA	TAGCACGAGGCTCAGTTTCCGGTA
	1162	GGATCTTTACTCAGGGGCAGAGCC	GGCTCTGCCCCTGAGTAAAGATCC
	1163	CGCGAGTGCTTTGTTCTGTGGA	TCCACACAGAACAAAGCACTCGCG
20	1164	GTCGTCGCGATGGCGTACATCCTT	AAGGATGTACGCCATCGCGACGAC
	1165	ACGGGAATCTCCCGAAGTGCGAGC	GCTCGCACTTCGGGAGATTCCCGT
	1166	GGTCGAAATGAGCCAGCAGCAGAT	ATCTGCTGCTGGCTCATTTCGACC
	1167	CCATTGGAATACTGCGTGCGGCTT	AAGCCGCACGCAGTATTCCAATGG
	1168	GGAAGACTTCGCGAGGGCACAATG	CATTGTGCCCTCGCGAAGTCTTCC
25	1169	AGGGTGACTTCGAAGGTCCGAACT	AGTTCGGACCTTCGAAGTCACCCT
	. 1170	TCGTCCCTCTGGTGGTCGAATCAC	GTGATTCGACCACCAGAGGGACGA
	1171	TGTGCAAATTATGCTGGGCGTGAG	CTCACGCCCAGCATAATTTGCACA
	1172	GTCGCCAACTGTCATGTGTGCCCA	TGGGCACACATGACAGTTGGCGAC
	1173	CCTCGAACCCTCAAGACGAAACGA	TCGTTTCGTCTTGAGGGTTCGAGG
30	1174	CTTCATCACGTGACCTTTGTTGCC	GGCAACAAAGGTCACGTGATGAAG
	1175	CCTTCATTCCCAGCAGGATGGCTT	AAGCCATCCTGCTGGGAATGAAGG
	1176	CGGGGACCTCAATGGAGCGTCTTA	TAAGACGCTCCATTGAGGTCCCCG
	1177	CGCCTCTAGCGCTTGTTACGTCGA	TCGACGTAACAAGCGCTAGAGGCG
	1178	CTGCCAGACTCAAAACAGGGACGG	CCGTCCCTGTTTTGAGTCTGGCAG
35	1179	CTCCTTACACCGTGTGAGGGAACC	GGTTCCCTCACACGGTGTAAGGAG
-	1180	TTTCATGCCATATCGCCTCGCGCA	TGCGCGAGGCGATATGGCATGAAA
	1181	GTCTGACTGTCTGCCCTGTATGCG	CGCATACAGGGCAGACAGTCAGAC
	1182	GGTTAATGGAACGGCGTTAACGCG	CGCGTTAACGCCGTTCCATTAACC
	1183	CTTCGCACTGCGGAATCTCAAGCT	AGCTTGAGATTCCGCAGTGCGAAG
40	1184	TGCCAGAGGCGTAGGAGTCCTGGA	TCCAGGACTCCTACGCCTCTGGCA
•	11,85	GACGGCCAGCCAGTATTAACTCA	TGAGTTAATACTGGCTCGCCCGTC

	1186	GACCTCCAAAGTCAGTCTTGGCGG	CCGCCAAGACTGACTTTGGAGGTC
	1187	CGTTAGAGCATGACCGAACACGTC	GACGTGTTCGGTCATGCTCTAACG
	1188	GTGGGCTCAAAAATTGGGTACGCC	GGCGTACCCAATTTTTGAGCCCAC
	1189	GGGGCAGAGATCACGCGTTCCTCT	AGAGGAACGCGTGATCTCTGCCCC
5	1190	TTTCGCCCTACGAAGCGAAGTTTC	GAAACTTCGCTTCGTAGGGCGAAA
	1191	TACGGGGTGATGTTAAGCTACGCG	CGCGTAGCTTAACATCACCCCGTA
	1192	CCTGTGAGTCTGAGATCGCCGTGT	ACACGGCGATCTCAGACTCACAGG
	1193	ACTGAAGCTGGAACAGGCCATTCG	CGAATGGCCTGTTCCAGCTTCAGT
	1194	AGCACTGGTTCACATGGGAGTCCA	TGGACTCCCATGTGAACCAGTGCT
10	1195	TAAGGAAGATCACACTCCCTGCGC	GCGCAGGGAGTGTGATCTTCCTTA
	1196	CACCACACGCTAAAATTGAAGCCG	CGGCTTCAATTTTAGCGTGTGGTG
	1197	GCTGTCGCCAGGATCATGTATCGT	ACGATACATGATCCTGGCGACAGC
	1198	TTCGTTCGTGCACTGGATTCTTGA	TCAAGAATCCAGTGCACGAACGAA
	1199	TCAGCTCTCCTTGTGCTTGCAGTG	CACTGCAAGCACAAGGAGAGCTGA
15	1200	ACGACGAGGTGAACTTCGTGGGAA	TTCCCACGAAGTTCACCTCGTCGT
	1201	AGCATTGCCGCGGGCCTTGGTTTA	TAAACCAAGGCCCGCGGCAATGCT
	1202	CAGAGGCAGATGTGACTCCTCAA	TTGAGGAGTCACATCTGCCCTCTG
	1203	CGATATTTCAGCCTCTCAAACGCG	CGCGTTTGAGAGGCTGAAATATCG
	1204	TGCCAGAAATGTTGCCGATTCGAA	TTCGAATCGGCAACATTTCTGGCA
20	1205	TAGGCCACCGGTGTTCACAATTC	GAATTGTGAACACCGGGTGGCCTA
	1206	GAGAGTCAGACCGAGGGACACGAG	CTCGTGTCCCTCGGTCTGACTCTC
	1207	GAGGCGATCCTGGAACCACGCAAC	GTTGCGTGGTTCCAGGATCGCCTC
	1208	CCAGAGAGGCGGGCTACTGACTCA	TGAGTCAGTAGCCCGCCTCTCTGG
	1209	CACACAGTCCCATCGTACGGCAGT	ACTGCCGTACGATGGGACTGTGTG
25	1210	TTACGTTGCGGAAGCGTGCCTCTA	TAGAGGCACGCTTCCGCAACGTAA
	1211	ATGTACACGCTGCAATCGTGTCCC	GGGACACGATTGCAGCGTGTACAT
	1212	ACTCGTCGTCGGAAGCGCCCAGGT	ACCTGGGCGCTTCCGACGACGAGT
	1213	ATGCGAGAGCAGAATTGAGCCGGT	ACCGGCTCAATTCTGCTCTCGCAT
	1214	AAGTTGGTTCGTATTCACGCGTGC	GCACGCGTGAATACGAACCAACTT
30	1215	TGGGCTTATCGCCGAAGATTGCTA	TAGCAATCTTCGGCGATAAGCCCA
	1216	CAACGGCGAAGACCCAGAATTTTA	TAAAATTCTGGGTCTTCGCCGTTG
	1217	AGCGTACGGCGAAAGTCTAGGGAC	GTCCCTAGACTTTCGCCGTACGCT
	1218	ATGCATCCAGCGTCCCCTTGATTA	TAATCAAGGGGACGCTGGATGCAT
	1219	ACCGTCATCAGTCGCAGGCTTCTG	CAGAAGCCTGCGACTGATGACGGT
35	1220	TCTTGACGGCTGGGCATGATTGGA	TCCAATCATGCCCAGCCGTCAAGA
	1221	TTAACATTCGGACCCAGGACCTGG	CCAGGTCCTGGGTCCGAATGTTAA
	1222	TGGTGTCGAACTCCCTTGCGTGTT	AACACGCAAGGGAGTTCGACACCA
	1223	TACTCCAGTCGCCTGCGCGCAAAC	GTTTGCGCGCAGGCGACTGGAGTA
	1224	CGCAATGCCGTAAGCATGCCAAGC	GCTTGGCATGCTTACGGCATTGCG
40	1225	AGTCCGCGCGAAATACGAACAGTA	TACTGTTCGTATTTCGCGCGGACT
	1226	ATGTTGCACGCGCACTGTATCACA	TGTGATACAGTGCGCGTGCAACAT

1227 ATCGCCTAACTACCGCGGGCGTGC GCACGCGGGGTAGTTAGGC 1228 TGGCCAGGGAACACAAGCTCGGTA TACCGAGCTTGTGTTCCCTGG 1229 AAACATGGGTCGCGTCTGAGATCA TGATCTAGACGCGACCCATG 1230 GCGAGAGCTGCGATTCCCTTTTAG CTAAAAGGGAATCCAGCTGAGCTG	CA
1229 AAACATGGGTCGCGTCTGAGATCA TGATCTCAGACGCGACCCATG 1230 GCGAGAGCTGCGATTCCCTTTTAG CTAAAAGGGAATCGCAGCTCTT 1231 CCGGCCAAACAAGAGAGCGGGA TCCGCTCGTCTCTTGTTTGGCC 1232 AATGGGGCACAGTCTCGCTTGACA TGTCAAGCGAGACTGTGCCCC 1233 TGTCTCGGGCCTTCAGGACACACT AGTGTGTCCTGAAGGCCCGAG 1234 TCCACCTTCATTAAGTGGTTCGGC GCCGAACCACTTAATGAAGGT 1235 GCTTCGGAATCATCCACCTGTCAT ATGACAGGTGGATGATTCCGA 1236 GAGCCGATGGGCTATCGTCGTCGG CCGACGACGATGATCCCACTGCAT 1237 CACGAATTACGCACGCACAGAGGA TCCTCTGTGCGTGCGTAATTCC 1238 GCTGTGACGCTCCCCTCAACTAGG CCTAGTTGAGGGGAGCGTCAC 1239 CGCTCTGAAAACGCGGGCTACGTT AACGTAGCCCGCGTTTTCAGA 1240 GAGTGCTGGACACCGTAGCAGGA TCCTCGCTACACTGGGGT 1241 CCAACCCCAGTGTAGCCAGGA TCCTGGCTACACTGGGGT 1242 GAAGTAGGGGATGTTGGCCAGGA TCCTGGCTACACTGGGGT 1243 CAACGTGGGACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG 1244 CTAGCTGCGACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG 1245 CATGAACCCCAGCTGTCCTACC CGTAGAGGTTCGGAGC 1246 AGACTGGCAACTTCTCACC CGTAGAGGTTCGAGGC 1247 CTGGCCGTCCATCAGCCAACTTCCCTCAGACACTCCCTGATGTTCAGAC 1248 CATGAACCATCAGCCAAGCTGCC CGCAGCTTGGCTGATGGTTCA 1249 CGATATGTAACACAGGGGCCAA TTGGCCCGAAAAATTGCCAG 1249 CGATATGTAAACACGGGATTTTCCAGC 1249 CGATATGAACACACGGGATTGCCAT ATGGCAACCTCCTGATGGTCAGAC 1249 CGATATGAACACACGGGATTGCCAT ATGGCAACCTCCTGACACTCATAGCCAGCTGCAAAATTGCCAGC 1249 CGATATGAAACACGGGATTGCCAT ATGGCAACCTCCTGAACATTCCAGCAGCTGCAACTCCCTGAAAAATTGCCAGC 1249 CGATATGAAACACGGGATTGCCAT ATGGCAACCTCCTGAACATTCCAGCAGCTGCAACTCCCTGAACACTCCCTGATGATGTTCAGACCCCGCGAACCTCCTGAACACTCCCGTGTTTCAGCACCCCGCGAACCTCCTGAACACTCCCGTGTTTCAGCACCCCGCGAACCTCCCAGACCTCCAACCTCCAGACCTCCAACCTCCAGACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCAACCTCCA	
1230 GCGAGAGCTGCGATTCCCTTTTAG  1231 CCGGCCAAACAAGAGAGCGAGCGGA  1232 AATGGGGCACAGTCTCGCTTGACA  1233 TGTCTCGGGGCCTTCAGGACACACT  1234 TCCACCTTCATTAAGTGGTTCGGC  1235 GCTTCGGAATCATCCACCTGTCAT  1236 GAGCCGATGGGCTACCACCT  1237 CACGAATTACGCACGCACACACT  1238 GCTGTGACACCACT  1239 CGCTCTGAAAACCGCGACACACT  1239 CGCTCTGAAAACCGCGCCACACACACACT  1240 GAGTGCTGCACCCTCACACTAGG  1240 GAGTGCTGAAAACCGCGCCACAGAGAA  1240 GAGTGCTGAAAACCGCGGCACAGAGAA  1241 CCAACCCCAGTGTAGGCCACGCACAGAGA  1242 GAAGTAGGGGATGTTGGCCGGG  1243 CAACGTGGGCACCAGAGAA  1244 CTAGCTGCGACCCTGTAATTACCACCTGTCAT  1245 CAACGTGGGCACACAGAGA  1246 CAACGTGGACACCTGTTTTAGCAG  1247 CTGGCCGTCCAACTACG  1248 CATTGAACCATCAGCCAAGCTGCC  1246 AGACTGGCAATTTTTCGAGGCCAAA  1247 CTGGCCGTCCAACTCTACG  1248 CATGCTGAAAACAGGGGATTGCCACA  1249 CGATATGTAAGACAGCGCAAA  1250 AGCGTAACCTACGGGAACCTCTACC  1249 CGATATGTAAGACAGCGGAATTGCCACACACTCCCAGGACACATCCCCTACACTGGACACACAC	TT :
1231 CCGGCCAAACAAGAGAGCGGGA TCCGCTCGTCTCTTGTTTGGCC  1232 AATGGGGCACAGTCTCGCTTGACA TGTCAAGCGAGACTGTGCCCC  1233 TGTCTCGGGCCTTCAGGACACACT AGTGTGCCCCGAGCGCGCCGCGC	
1232 AATGGGGCACAGTCTCGCTTGACA TGTCAAGCGAGACTGTGCCCCC 1233 TGTCTCGGGCCTTCAGGACACACT AGTGTGCCCCCGAG 1234 TCCACCTTCATTAAGTGGTTCGGC GCCGAACCACTTAATGAAGGTT 1235 GCTTCGGAATCATCCACCTGTCAT ATGACAGGTGGATGATTCCGA 1236 GAGCCGATGGGCTATCGTCGTCG CCGACGACGATAGCCCATCGG 1237 CACGAATTACGCACGCACAGAGGA TCCTCTGTGCGTGCGTGATTCCCACCTGACACACAGAGGA TCCTCTGTGCGTGCGTAATTCC 1238 GCTGTGACGCTCCCCTCAACTAGG CCTAGTTGAGGGGAGCGTCAC 1239 CGCTCTGAAAACGCGGGCTACGTT AACGTAGCCCGCGTTTTCAGAC 1240 GAGTGCTGGACACCGTAGCCAGGA TCCTGGCTACCAGCAC 1241 CCAACCCCAGTGTAGGCCAGGA TCCTGGCTACACTGGGGT 1242 GAAGTAGGGGATGTTGGCCGCGG CCGCCGGCCAACATCCCCTACC 1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG 1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCCCAGC 1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGAAAAATTGCCAG 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAG 1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCCTATGGACGGC 1248 CATGCTGAAACACGGGATTGCCAT ATGGCACAACTCATGGACGGC 1249 CGATATGTAAGACAGCCGTCGCAA TTGCCACGCTGTTTCAGCA 1250 AGCGTAACCTCTGGGAAGGCCAC GGTGCCTTCCCAGTTTCACATAT 1250 AGCGTAACCTCTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 25 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCCCGGGGTTTCC 1252 GTTGTTAGGAGGCTCGCAA TCCAAATATCCCGCGTAGCACCACCTCTAAC 1253 ACTGGTGCTACGCGGGGATATTTGA TCAAATATCCCGCGTTAGCACCACCCCGCGATATTTTAACATCCCGCGTAGCACCACCCCTCAACCCCGCGATATTTTAACATCCCCGGTTAGCACCACCCCCGCGATATTTTAACATCCCCGGGTAGCACCACCCCCGCGATATTTTAACATCCCCGGGTTCGAACCCCCGCGGATTTTAAATTTAACAATATCCCGCGGTAGCACCACCCCCCGCGATATTTTAACATCCCCGGGTAGCACCACCCCCCCGAACCCCCCGCGATATTTTAACATCCCCGGGTAGCACCACCCCCCCGAACCCCCCCGAATCCCCAACCCCCCCC	GC_
1233 TGTCTCGGGCCTTCAGGACACACT AGTGTGTCCTGAAGGCCCGAG 1234 TCCACCTTCATTAAGTGGTTCGGC GCCGAACCACTTAATGAAGGTT 1235 GCTTCGGAATCATCCACCTGTCAT ATGACAGGTGGATGATTCCGA 1236 GAGCCGATCGGCGCTATCGTCGG CCGACGACGATAGCCCATCGG 1237 CACGAATTACGCACGCACAGAGGA TCCTCTGTGCGTGCGTAATTCA 1238 GCTGTGACGCTCCCCTCAACTAGG CCTAGTTGAGGGGAGCGTCAC 1239 CGCTCTGAAAACGCGGGCTACGTT AACGTAGCCCGCGTTTTCAGAA 1240 GAGTGCTGGACACCGTAGCCAGGA TCCTGGCTACCGCGACACACACACACACACACACACACAC	ЗG
1234 TCCACCTTCATTAAGTGGTTCGGC GCCGACCACTTAATGAAGGTT 1235 GCTTCGGAATCATCCACCTGTCAT ATGACAGGTGGATGATTCCGA 1236 GAGCCGATGGGCTATCGTCGG CCGACGACGATAGCCCATCGG 1237 CACGAATTACGCACGCACAGAGGA TCCTCTGTGCGTGCGTAATTCC 1238 GCTGTGACGCTCCCCTCAACTAGG CCTAGTTGAGGGGAGCGTCAC 1239 CGCTCTGAAAACGCGGGCTACGTT AACGTAGCCCGCGTTTTCAGAC 1240 GAGTGCTGGACACCGTAGCCAGGA TCCTGGCTACCAGCAC 1241 CCAACCCCAGTGTAGGCCAGGA TCCTGGCTACACTGGGGT 1242 GAAGTAGGGGATGTTGGCCGGCG CCGCCGGCCTACACTGGGGT 1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG 1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCCCACG 1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCCTCGAAAAATTGCCAG 1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCCCTGG 1248 CATGCTGAAACACGGGATTGCCAT ATGGCACACTCATGGACGC 1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTTTCAGCAC 1250 AGCGTAACCTCACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCCA 1252 GTTGTTAGGAGGCTCCAGGCTGCT AGCAGCCTCCGAGCCTCCTAAC 1253 ACTGGTGCTACCGCGGATTTTTAA	TT.
1235 GCTTCGGAATCATCCACCTGTCAT ATGACAGGTGGATGATTCCGA  1236 GAGCCGATGGGCTATCGTCGG CCGACGACGATGACTCCGC  1237 CACGAATTACGCACGCACAGAGGA TCCTCTGTGCGTAATTCC  1238 GCTGTGACGCTCCCCTCAACTAGG CCTAGTTGAGGGGAGCGTCAC  1239 CGCTCTGAAAACGCGGGCTACGTT AACGTAGCCCGCGTTTTCAGAC  1240 GAGTGCTGGACACCGTAGCCAGGA TCCTGGCTACACTGGGGT  1241 CCAACCCCAGTGTAGGCGCAAATG CATTTGCGCCTACACTGGGGT  1242 GAAGTAGGGGATGTTGGCCGGCG CCGCCGCCAACATCCCCTAC  1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG  1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCGCAGC  1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA  20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGCCCTCACTGGGGT  1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCCTATGGACGGC  1248 CATGCTGAAACACGGGATTGCCAT ATGGCAACCTCATGGACGGC  1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTTTCAGCAC  1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGTTACATAT  1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC  1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCGA  1252 GTTGTTAGGAGGCTCCAAGCCTCCAACCCTCAACACTCCATACCCCTTAACACCCCGCGATATTTTAACATCCCGCGTAGCACCACCTCTAACCCCGCGGATATTTTAACATCCCGCGGATCCCTAACCCCCGCGATATTTTAACATCCCGCGGATTAACCCCCCCGCGATATTTTAACATCCCGCGGATAGCACCACCCTCAACCCCCCCGCATACCCCCCGCGATATTTTAACATCCCGCGGATAGCACCACCCCCCCC	\CA
1236 GAGCCGATGGGCTATCGTCGG CCGACGACGATAGCCCATCGG 1237 CACGAATTACGCACGCACAGAGGA TCCTCTGTGCGTGCGTAATTCC 1238 GCTGTGACGCTCCCCTCAACTAGG CCTAGTTGAGGGAACGCTCAC 1239 CGCTCTGAAAACGCGGGCTACGTT AACGTAGCCCGCGTTTTCAGAC 1240 GAGTGCTGGACACCGTAGCCAGGA TCCTGGCTACGGTGTCCAGCA 1241 CCAACCCCAGTGTAGGCCAGGA TCCTGGCTACGGTGTCCAGCA 1242 GAAGTAGGGGATGTTGGCCGGCGG CCGCCGGCCAACATCCCCTAC 1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG 1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCGCAGC 1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA 20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAG 1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC 1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA 1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTTTCAGCA 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGGTTCGA 1252 GTTGTTAGGAGGCTCCAAGCTGCT AGCAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCAC 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	GA
1237 CACGAATTACGCACGCACAGAGGA TCCTCTGTGCGTGCGTAATTCC 1238 GCTGTGACGCTCCCCTCAACTAGG CCTAGTTGAGGGGAGCGTCAC 1239 CGCTCTGAAAACGCGGGCTACGTT AACGTAGCCCGCGTTTTCAGAC 1240 GAGTGCTGGACACCGTAGCCAGGA TCCTGGCTACGGTGTCCAGCA 1241 CCAACCCCAGTGTAGGCGAAATG CATTTGCGCCTACACTGGGGT 1242 GAAGTAGGGGATGTTGGCCGGCG CCGCCGGCCAACATCCCCTAC 1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG 1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCGCAGC 1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA 20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAG 1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC 1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA 1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTTTACATAT 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCG 1252 GTTGTTAGGAGGCTCCAAGGCTGCT AGCAGCCTCCCAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCACCACCACCACCACCACCACCACCACCACCACCA	GC
1238 GCTGTGACGCTCCCCTCAACTAGG CCTAGTTGAGGGGAGCGTCAC 1239 CGCTCTGAAAACGCGGGCTACGTT AACGTAGCCCGCGTTTTCAGAI 1240 GAGTGCTGGACACCGTAGCCAGGA TCCTGGCTACGGTGTCCAGCA 1241 CCAACCCCAGTGTAGGCGGCAAATG CATTTGCGCCTACACTGGGGT 1242 GAAGTAGGGGATGTTGGCCGGCGG CCGCCGGCCAACATCCCCTAC 1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG 1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCGCAGC 1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA 20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAG 1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC 1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA 1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTCTTACATAT 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCGA 1252 GTTGTTAGGAGGCTCGAGGCTGCT AGCAGCCTCCGAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCACCACCACCACCACCACCACCACCACCACCACCA	CTC
1239 CGCTCTGAAAACGCGGGCTACGTT AACGTAGCCCGCGTTTTCAGAA  1240 GAGTGCTGGACACCGTAGCCAGGA TCCTGGCTACAGGACACACCGCAGCACACCCCAGTGTAGGCGCAAATG CATTTGCGCCTACACTGGGGT  1241 CCAACCCCAGTGTAGGCGCAAATG CATTTGCGCCTACACTGGGGT  1242 GAAGTAGGGGATGTTGGCCGGCGG CCGCCGGCCAACATCCCCTACACTGGGGT  1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG  1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCGCAGC  1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA  20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAGC  1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC  1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCAC  1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGCTTACATAT  1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC  25 1251 GTTCGAACCCCGCGGATGTTAAATG CATTTAACATCGCGGGGGTTCGACCACCCGCGGTTCGAGGCTCCCTAACCCGCGGAGCTCCCTAACCCGCGGGGTTCGAGAGCTCCCTCC	ΓG
1240 GAGTGCTGGACACCGTAGCCAGGA TCCTGGCTACGGTGTCCAGCA  1241 CCAACCCCAGTGTAGGCGCAAATG CATTTGCGCCTACACTGGGGT  1242 GAAGTAGGGGATGTTGGCCGGCGG CCGCCGGCCAACATCCCCTACA  1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG  1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCGCAGC  1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA  20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAG  1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC  1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA  1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTCTTACATAT  1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC  25 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCGA  1252 GTTGTTAGGAGGCTCGAGGCTGCT AGCAGCCTCCTAAC  1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCACCACCACCACCACCACCACCACCACCACCACCA	(GC
1241 CCAACCCCAGTGTAGGCGCAAATG CATTTGCGCCTACACTGGGGT 1242 GAAGTAGGGGATGTTGGCCGGCGG CCGCCGGCCAACATCCCCTAC 1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG 1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCGCAGC 1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA 20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAGC 1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC 1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCACCACCACTCATGAAACACAGCCGTCGCAA TTGCGACGGCTGTCTTACATATCCCAGCTAACCACTCATGGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCGACCACCTACCGGGGTTCGAACCCCGCGGATGTTAAATG CATTTAACATCGCGGGGTTCGAACCCCGCGGATGTTAAATG CATTTAACATCGCGGGGGTTCGACCACCACCTCAACCACCCGCGGATGTTAAATG CATTTAACATCGCGGGGTTCGAACCCCGCGGGATGTTAAATG CATTTAACATCCCGCGTAGCACCACCACCACCACCCACCACCCAC	CG
1242 GAAGTAGGGGATGTTGGCCGGCGG CCGCCGGCCAACATCCCCTACC 1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG 1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCGCAGG 1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA 20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAG 1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC 1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA 1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTCTTACATAT 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCGA 1252 GTTGTTAGGAGGCTCGCAGCTGCT AGCAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCA 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	тс
1243 CAACGTGGGCACCTGTTTTAGCAG CTGCTAAAACAGGTGCCCACG 1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCGCAGC 1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA 20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAG 1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC 1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA 1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTCTTACATAT 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCGA 1252 GTTGTTAGGAGGCTCGT AGCAGCCTCGAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCA 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	GG
1244 CTAGCTGCGATCCGAACCTCTACG CGTAGAGGTTCGGATCGCAGC 1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA  20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAGC 1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC 1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA 1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTCTTACATAT 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCGA 1252 GTTGTTAGGAGGCTCGT AGCAGCCTCGAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCA 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	TC
1245 CATTGAACCATCAGCCAAGCTGCG CGCAGCTTGGCTGATGGTTCA  1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAGG  1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC  1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA  1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTCTTACATAT  1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC  1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCGA  1252 GTTGTTAGGAGGCTCGAGGCTGCT AGCAGCCTCGAGCCTCCTAAC  1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCACCACCACCACCACCACCACCACCACCACCACCA	TG
20 1246 AGACTGGCAATTTTTCGAGGCCAA TTGGCCTCGAAAAATTGCCAG 1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC 1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA 1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTCTTACATAT 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 25 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGGTTCGA 1252 GTTGTTAGGAGGCTCGAGGCTGCT AGCAGCCTCGAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCA 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	AG
1247 CTGGCCGTCCATGAGTTGGTCCAG CTGGACCAACTCATGGACGGC 1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA 1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTCTTACATAT 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCGA 1252 GTTGTTAGGAGGCTCGAGGCTGCT AGCAGCCTCGAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCA 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATACCCC	TG
1248 CATGCTGAAACACGGGATTGCCAT ATGGCAATCCCGTGTTTCAGCA 1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTCTTACATAT 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC  25 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGGTTCGA 1252 GTTGTTAGGAGGCTCGAGGCTGCT AGCAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCA 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	СТ
1249 CGATATGTAAGACAGCCGTCGCAA TTGCGACGGCTGTCTTACATAT 1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC  25 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCG 1252 GTTGTTAGGAGGCTCGAGGCTGCT AGCAGCCTCGAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACC 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	:AG
1250 AGCGTAACCTACTGGGAAGGCACC GGTGCCTTCCCAGTAGGTTAC  1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCGA  1252 GTTGTTAGGAGGCTCGAGGCTGCT AGCAGCCTCGAGCCTCCTAAC  1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCA  1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	ΤG
25 1251 GTTCGAACCCCGCGATGTTAAATG CATTTAACATCGCGGGGTTCG. 1252 GTTGTTAGGAGGCTCGAGGCTGCT AGCAGCCTCGAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACC. 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	CG
1252 GTTGTTAGGAGGCTCGAGGCTGCT AGCAGCCTCGAGCCTCCTAAC 1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCA 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	СТ
1253 ACTGGTGCTACGCGGGATATTTGA TCAAATATCCCGCGTAGCACCA 1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	AC
1254 CTGGGAGCTATCCTCAGCCGAATC GATTCGGCTGAGGATAGCTCC	AC
	ЭТ
1255 GAACTCGCCGCTGCCGAAGGGTAG CTACCCTTCGGCAGCGGCGAG	AG
	тс
30 1256 TTCGATCGAGGAGCAAGGAGAGTC GACTCTCCTTGCTCCTCGATCC	4A
1257 GGGGAAAATTGAGGCCTTAGCCAT ATGGCTAAGGCCTCAATTTTCC	C
1258 CTAAGGTCAAAGCGCTGTCGCCAG CTGGCGACAGCGCTTTGACCT	AG
1259 CCGTAGCGGTGCTCGACCAGGTTC GAACCTGGTCGAGCACCGCTA	:GG
1260 TGGGGACGAATCCGAATGTAGTGA TCACTACATTCGGATTCGTCCC	A.
35 1261 GTCATGTAATTGCATCCCACGGGT ACCCGTGGGATGCAATTACATC	AC
1262 CTTTGCGCGGTGGTCAATAAAAG CTTTTTATTGACCACCGCGCAA	ιG
1263 CTCGGGGATGCCCTCTTGGCATTA TAATGCCAAGAGGGCATCCCC	AG
1264 CGAAACGTGGTGCAGAAACCTGAA TTCAGGTTTCTGCACCACGTTT	;G
1265 GGAGTTCACGAGTCGAGCAGTCGC GCGACTGCTCGACTCGTGAAC	CC
40 1266 AGCCGTTTTCAAAGATCTCGACGA TCGTCGAGATCTTTGAAAACGC	СТ
1267 TGGCTGGACATTGTCTGCAATGCA TGCATTGCAGACAATGTCCAG	CA

	1268	ATCGGCTGCCTCAGTCCCTAATTT	AAATTAGGGACTGAGGCAGCCGAT
	1269	CCAGCATGGAGTTAAGTGAGCGCG	CGCGCTCACTTAACTCCATGCTGG
	1270	TTCATATTTACGAATGCCGGGTGC	GCACCCGGCATTCGTAAATATGAA
	1271	CGAAATCGCACAGGAATTCGCGTC	GACGCGAATTCCTGTGCGATTTCG
5	1272	GGCAATTTCGGGACACTCGTTTCA	TGAAACGAGTGTCCCGAAATTGCC
	1273	TTTGTGATTGGGGGTATAACCCGA	TCGGGTTATACCCCCAATCACAAA
•	1274	CCCAGCTAATCCAGCTTGGGCTGT	ACAGCCCAAGCTGGATTAGCTGGG
	1275	AAAATCGTTTGGCTGTAACGTCGC	GCGACGTTACAGCCAAACGATTTT
	1276	AGGAGATTCATCGACTTCCGGGAA	TTCCCGGAAGTCGATGAATCTCCT
10	1277	GCACGGGTCTCAATGCTTAGGGT	ACCCTAAGCATTGAGACCCCGTGC
	1278	GCGCAACAAGTAGCCTACCGAGGC	GCCTCGGTAGGCTACTTGTTGCGC
	1279	TAGCAGGCTGATGCCGTCTACACA	TGTGTAGACGGCATCAGCCTGCTA
	1280	GCAAGCGGCGATCGTACAACTTGT	ACAAGTTGTACGATCGCCGCTTGC
	1281	GCACCTCTGGTAAGCCTGAAAGGG	CCCTTTCAGGCTTACCAGAGGTGC
15	1282	CGAGGCGGTGAGTGCATACCGTG	CACGGTATGCACTCACCGCCCTCG
	1283	GGATTAACCGGAACTGCCCTTCTG	CAGAAGGCAGTTCCGGTTAATCC
	1284	GATATTGGGTCCGGCGCGCATTAC	GTAATGCGCGCCGGACCCAATATC
	1285	GGCCTTTAATCTCCGGTCGCAATG	CATTGCGACCGGAGATTAAAGGCC
••	1286	AACCTTAGTGCGGCTAGGTGGGGT	ACCCCACCTAGCCGCACTAAGGTT
20	1287	CACGCTGACGCCAGTGTGGTGAGG	CCTCACCACACTGGCGTCAGCGTG
	1288	GGTTCCCTTGACCCACCGAATTGA	TCAATTCGGTGGGTCAAGGGAACC
	1289	TTCTGACAACATCGACCCTGGCTC	GAGCCAGGGTCGATGTTGTCAGAA
	1290	GCGAGCGAAGATAATCCCCAAACT	AGTTTGGGGATTATCTTCGCTCGC
	1291	GTACTCTGTGCAACGGTCCCGAGT	ACTCGGGACCGTTGCACAGAGTAC
25	1292	ACACGCCAGGAACAGTGTCTGTGA	TCACAGACACTGTTCCTGGCGTGT
	1293	AAGGGAATTTAGCGCGCGTGACTT	AAGTCACGCGCGCTAAATTCCCTT
	1294	TGACGTACGCGTTTTAAGTGGGGA	TCCCCACTTAAAACGCGTACGTCA
	1295	CTTAGAGGGACGAGGCCATGAATG	CATTCATGGCCTCGTCCCTCTAAG
	1296	GGACGACTCCGCAAAAAAGGTCGT	ACGACCTTTTTTGCGGAGTCGTCC
30	1297	TCAATCCCAACATCCAAAGCCTCA	TGAGGCTTTGGATGTTGGGATTGA
	1298	GCACTGGTCTACCAAGCTTGTCCC	GGGACAAGCTTGGTAGACCAGTGC
	1299	ACTTGTCGGAAACGAGACCGAGCA	TGCTCGGTCTCGTTTCCGACAAGT
	1300	TCAGGAAAGGCCTAAAGGCGAAAG	CTTTCGCCTTTAGGCCTTTCCTGA
	1301	GGAATGTAGTCAAGGAGGACGGGG	CCCCGTCCTCCTTGACTACATTCC
35	1302	GCACGTGGTAAATGAATTGGCGAG	CTCGCCAATTCATTTACCACGTGC
	1303	GATCATCAGGGGTTATGCGTCGCG	CGCGACGCATAACCCCTGATGATC
	1304	CTCACTCATTCTGATTGCCCGCGG	CCGCGGCAATCAGAATGAGTGAG
	1305	GGGGTGATCTCTCGAACGTCACCC	GGGTGACGTTCGAGAGATCACCCC
	1306	AAGGTTGCTGCTAGCGTACCTCGA	TCGAGGTACGCTAGCAGCAACCTT
40	1307	TATAGATCGCCCAACAGGCAGGAG	CTCCTGCCTGTTGGGCGATCTATA
	1308	GTTTGGACCTGTTGGGAGTGGGCA	TGCCCACTCCCAACAGGTCCAAAC

	1309	ATTGGGGAAAACCCGGTCTCAAGG	CCTTGAGACCGGGTTTTCCCCAAT
	1310	TCGACGATAAAGTGCTCACGGGAC	GTCCCGTGAGCACTTTATCGTCGA
	1311	CGATAGAATTCAATGCAGGGCGGA	TCCGCCTGCATTGAATTCTATCG
	1312	CGGTTCGCTACGGCGGCTGGTTTC	GAAACCAGCCGCCGTAGCGAACCG
5	1313	CCAGGTTTCGGTTAGTCGCGCTAG	CTAGCGCGACTAACCGAAACCTGG
	1314	ACGACCTTACACTCGGATCCGACG	CGTCGGATCCGAGTGTAAGGTCGT
	1315	TCGCGTTAAATGGACCAAGGGGCC	GGCCCCTTGGTCCATTTAACGCGA
	1316	CCAGAAAGAAAATGGCGCCCGGAT	ATCCGGGCGCCATTTCTTTCTGG
	1317	GATACATCGCCGCCTGCTAGGCAC	GTGCCTAGCAGGCGGCGATGTATC
10	1318	GAGATCACACTCGGAAACCGGATG	CATCCGGTTTCCGAGTGTGATCTC
	1319	ACTTCGCGGAAAAAGGCTGGCATT	AATGCCAGCCTTTTTCCGCGAAGT
	1320	CCGAGCTGCACGAGCACACAAGT	ACTTTGTGTGCTCGTGCAGCTCGG
	1321	TTCCACAAGGCGGCATAGTGAGGC	GCCTCACTATGCCGCCTTGTGGAA
	1322	AGCAAACTGGAATCCGGAAAAACC	GGTTTTTCCGGATTCCAGTTTGCT
15	1323	CGCTATGTCGCAGCATGCATTTAC	GTAAATGCATGCTGCGACATAGCG
	1324	AGTCACGCCCAACGTCGGTTCTTT	AAAGAACCGACGTTGGGCGTGACT
	1325	AGTGGGCGCACTTGGCCTTAAATA	TATTTAAGGCCAAGTGCGCCCACT
	1326	ACTTGCAACTTCGGCCGTTTGACT	AGTCAAACGGCCGAAGTTGCAAGT
	1327	CAAACATCAGGTTCATGCCGTACG	CGTACGGCATGAACCTGATGTTTG
20	1328	AGCGTGACCACCCTACAATGGCAA	TTGCCATTGTAGGGTGGTCACGCT
	1329	GCAGGCATCCGGCAGAGATGTCTC	GAGACATCTCTGCCGGATGCCTGC
	1330	GAGCGGCTAAGAGGCCAGACCAAA	TTTGGTCTGGCCTCTTAGCCGCTC
	1331	CACAGAACAGGGTGTTTCCCGCTA	TAGCGGGAAACACCCTGTTCTGTG
	1332	ACTTTGCAGAAGGCCCAACACAAG	CTTGTGTTGGGCCTTCTGCAAAGT
25	1333	CCTTCCTGGTACTTTGTGGGCGAC	GTCGCCCACAAAGTACCAGGAAGG
	1334	CTACATGCTCACCCACCAGAGTG	CACTCTGGTGGGGTGAGCATGTAG
	1335	ATTTTCAGAATAGCCCCGCCTCGA	TCGAGGCGGGCTATTCTGAAAAT
	1336	CAATTGCTACGTTGACGCCCTCTG	CAGAGGGCGTCAACGTAGCAATTG
	1337	CTGTCGCCTAATCCTCGGTGGCCG	CGGCCACCGAGGATTAGGCGACAG
30	1338	TTTGTGTTGGCTCCGTACATTGGA	TCCAATGTACGGAGCCAACACAAA
	1339	ACGTGACGGGAAGGTGGTTGAATC	GATTCAACCACCTTCCCGTCACGT
	1340	AGTTCTTGCGTTGCACGAAACAGA	TCTGTTTCGTGCAACGCAAGAACT
	1341	GCTCGCCGCGCGTCTTTATGTCTG	CAGACATAAAGACGCGCGGCGAGC
	1342	ATGAACATCGCGAGGCAAGCCTTT	AAAGGCTTGCCTCGCGATGTTCAT
<b>3</b> 5	1343	CAACCGCGCCCACCAACATTAAGG	CCTTAATGTTGGTGGGCGCGGTTG
	1344	TGATCGAGGACGGCTTGGTAGCCT	AGGCTACCAAGCCGTCCTCGATCA
	1345	GGAGGCATGCCTTCCGAGAGCAAC	GTTGCTCTCGGAAGGCATGCCTCC
	1346	CACCGATCCTCAACGCAATTGCTA	TAGCAATTGCGTTGAGGATCGGTG
	1347	GGCCATGAATTGGGAAATCCATGT	ACATGGATTTCCCAATTCATGGCC
40	1348	CTGTTCCAGGCGTAACCAGCGGGC	GCCCGCTGGTTACGCCTGGAACAG
	1349	TATGTCTGGCTCGCCATCAGAAGA	TCTTCTGATGGCGAGCCAGACATA
			· · · · · · · · · · · · · · · · · · ·

	1350	GGAGTGACCAGCACAAGCATCGAG	CTCGATGCTTGTGCTGGTCACTCC
	1351	TCGGACTGGAAGTAACTCGCATGA	TCATGCGAGTTACTTCCAGTCCGA
•	1352	GTAGGGTCAAGCACGATTGAAGCC	GGCTTCAATCGTGCTTGACCCTAC
	1353	CACCGGCGGTTCGACTAACGTGAC	GTCACGTTAGTCGAACCGCCGGTG
5	1354	GAATGACGCGCAGTGCATTTGAAC	GTTCAAATGCACTGCGCGTCATTC
	1355	GTGCTCGTCTAACCGCGGATAGAG	CTCTATCCGCGGTTAGACGAGCAC
	1356	GCGGACCTGGGTTAATTGACGCGC	GCGCGTCAATTAACCCAGGTCCGC
	1357	TTTTGATGTTGCGCACCGGGCTA	TAGCCCGGTGCGCAACATCAAAAA
	1358	TTGCGTCAGCGCATCTGCTCGATT	AATCGAGCAGATGCGCTGACGCAA
10	1359	ATGAGCACGCCAGTTCGTTCCTTT	AAAGGAACGAACTGGCGTGCTCAT
	1360	TCAACGGTAAAGAATCGCCCCGCA	TGCGGGCGATTCTTTACCGTTGA
	1361	CGCGATTGACTGAACCACACCTCT	AGAGGTGTGGTTCAGTCAATCGCG
	1362	GCGTGAAAGATGACGGCCGGTATA	TATACCGGCCGTCATCTTTCACGC
	1363	CATGATTCCACCTCGATCGGCTAG	CTAGCCGATCGAGGTGGAATCATG
15	1364	CTACGACAAAGCAACCGTGCAAAA	TTTTGCACGGTTGCTTTGTCGTAG
	1365	ATGCCGTGTTCATCTTGATGGTCC	GGACCATCAAGATGAACACGGCAT
	1366	TTCGTGGAGGGACTTTGGAGATCC	GGATCTCCAAAGTCCCTCCACGAA
	1367	GAAGCGCCGTAACGTACACCGTCG	CGACGGTGTACGTTACGGCGCTTC
	1368	AGCGTGCGCTTGGCTATAAGGCTA	TAGCCTTATAGCCAAGCGCACGCT
20	1369	ACAGTCAGGAGTAACGCCGCTCAA	TTGAGCGGCGTTACTCCTGACTGT
	1370	TTTAGCCGCTGCGACTGTAGGAAA	TTTCCTACAGTCGCAGCGGCTAAA
	1371	ACTGTGTCGCAATCAACCCGCAAA	TTTGCGGGTTGATTGCGACACAGT
	1372	TGCAGCCAATGCGGAACTTAGAGG	CCTCTAAGTTCCGCATTGGCTGCA
	1373	CCCGCTATCCCGGTCTTGCAGTTC	GAACTGCAAGACCGGGATAGCGGG
25	1374	GAGGCGCAACATATGCAGTGCTG	CAGCACTGCATATGTTGCGCCCTC
	1375	CGTACGGACATCGATGACGCAACG	CGTTGCGTCATCGATGTCCGTACG
	1376	AGTCTCCCGAGAAACGCATAAGGC	GCCTTATGCGTTTCTCGGGAGACT
	1377	AGGAAGTGGATGAACGCGGCTGCA	TGCAGCCGCGTTCATCCACTTCCT
	1378	GGGTTGCTCACCCTCGTCATCAGG	CCTGATGACGAGGGTGAGCAACCC
30	1379	TAGGAATGCGAGTTCCGGCGGTAA	TTACCGCCGGAACTCGCATTCCTA
	1380	CTCCTCACTTCCAAGCTGCGGATA	TATCCGCAGCTTGGAAGTGAGGAG
	1381	TCAATAGCACCTAGCATGCTCCCG	CGGGAGCATGCTAGGTGCTATTGA
	1382	TGATTCCTGCGCTTTCACAGGTCG	CGACCTGTGAAAGCGCAGGAATCA
	1383	GTATGTGCGGGATGGAAATCACGC	GCGTGATTTCCATCCCGCACATAC
35	1384	TACGGCAACTGTCGATACGAGGGC	GCCCTCGTATCGACAGTTGCCGTA
	1385	GGTTCCCTATCCAGCACTCCTCGC	GCGAGGAGTGCTGGATAGGGAACC
	1386	ATAAGCGCGCCACAGGTATGTACC	GGTACATACCTGTGGCGCGCTTAT
	1387	GAAAGTCGCCAACAGACTCGAGCA	TGCTCGAGTCTGTTGGCGACTTTC
	1388	CGCTAATGCCTCATAGGCGTGTGC	GCACACGCCTATGAGGCATTAGCG
40	1389	ATCCCCGCCGCACGAAGTACCAAG	CTTGGTACTTCGTGCGGCGGGGAT
	1390	GACGCTGCTGATGGCTTTATCGAT	ATCGATAAAGCCATCAGCAGCGTC

	1391	CTCTCCCGTCGCTTCAGAGATTA	TAATCTCTGAAGCGACGGGGAGAG
	1392	TCATGTGGGCCGTCGTATCAGTTT	AAACTGATACGACGGCCCACATGA
	1393	GGCCTGAAGGTGAATGGTTACGTG	CACGTAACCATTCACCTTCAGGCC
	1394	AGCCTCCAAAGCCGGTAGAGTTCC	GGAACTCTACCGGCTTTGGAGGCT
5	1395	TTGTCGTAGGCGCTCACCTTAGGA	TCCTAAGGTGAGCGCCTACGACAA
	1396	GCCTGAGTCCGGGTCGGGAAAGAA	TTCTTTCCCGACCCGGACTCAGGC
	1397	GGCACTATACCGGTTCTGGACGCG	CGCGTCCAGAACCGGTATAGTGCC
	1398	CCGTGTATACGGAAAGGTACGCCA	TGGCGTACCTTTCCGTATACACGG
	1399	CCCAAGGCAAGTGTGCATCAGTCC	GGACTGATGCACACTTGCCTTGGG
10	1400	GGAGTGCATCATGGCCAAATCTGG	CCAGATTTGGCCATGATGCACTCC
	1401	CCATGTTACGTCTGCGCACCACAG	CTGTGGTGCGCAGACGTAACATGG
	1402	GGCGTTGAGCTTAAAAGCAGCGAC	GTCGCTGCTTTTAAGCTCAACGCC
	1403	TTGGCACTCTGCAAGATACGTGGG	CCCACGTATCTTGCAGAGTGCCAA
	1404	GATCTGCACTGCAAGGTCTTGGGG	CCCCAAGACCTTGCAGTGCAGATC
15	1405	CGATCAACTTGCGGCCATTCCTGC	GCAGGAATGGCCGCAAGTTGATCG
	1406	CGGCTGGGGTCACAGAAACGAGTA	TACTCGTTTCTGTGACCCCAGCCG
	1407	GCGGCTAGTTGTACCTAGCGGCTG	CAGCCGCTAGGTACAACTAGCCGC
	1408	TCGTCACTGTTAGAGAGGCCTCCG	CGGAGGCCTCTCTAACAGTGACGA
	1409	AGTGTCGTGAGCCCTAGCGGCGCT	AGCGCCGCTAGGGCTCACGACACT
20	1410	AGGACGCAGGGATTCAAGTGCAAC	GTTGCACTTGAATCCCTGCGTCCT
	1411	ACCGATGCGCGGTCGGTCTCATAC	GTATGAGACCGACCGCGCATCGGT
	1412	GGCAGAGGGTTAGGGGGTTTTTT	AAAAAAACCCCCTAACCCTCTGCC
	1413	GGCAAAGGGTGTTTATGGGAGACC	GGTCTCCCATAAACACCCTTTGCC
	1414	ACAAGGCTTCGGCTGGCAGAATAC	GTATTCTGCCAGCCGAAGCCTTGT
25	1415	CATATCCGTTCCTATCGCCAGACG	CGTCTGGCGATAGGAACGGATATG
	1416	AAGCCTTTGTGGCCAAGGCCGCGT	ACGCGGCCTTGGCCACAAAGGCTT
	1417	CCGAACCATGGCTTTATCCAGTGT	ACACTGGATAAAGCCATGGTTCGG
	1418	GTTCAGCAGTAGCTCCCTCCA	TCGAGGAGGAGCTACTGCTGAAC
	1419	GCGCAGTGACACCATGATGCTTTC	GAAAGCATCATGGTGTCACTGCGC
30	1420	ACGATCCATTTTGCCAGCATGCAA	TTGCATGCTGGCAAAATGGATCGT
	1421	TCCCTTCATTTCGGGTTTTTAGCC	GGCTAAAAACCCGAAATGAAGGGA
	1422	TCTTCTTGCCCACATTCCCTTTTG	CAAAAGGGAATGTGGGCAAGAAGA
•	1423	TGCCTTTTGATTGGTGGTCACGGT	ACCGTGACCACCAATCAAAAGGCA
	1424	GACCCTCACGGTCATCAGAGGGAG	CTCCCTCTGATGACCGTGAGGGTC
35	1425	CCGTTCAACACAGTGATACACGCG	CGCGTGTATCACTGTGTTGAACGG
	1426	CACCAGGGGATAGGTGCGGTACGC	GCGTACCGCACCTATCCCCTGGTG
	1427	GGTCGGAACTGATCTGTGCGATCC	GGATCGCACAGATCAGTTCCGACC
	1428	TGCTCCTTCCTAGGGTCATCCGTG	CACGGATGACCCTAGGAAGGAGCA
	1429	GTGGACTTTGACGCCGGCTACCGC	GCGGTAGCCGGCGTCAAAGTCCAC
40	1430	CTGATCTGTCGGCGGTTACTTGCC	GGCAAGTAACCGCCGACAGATCAG
	1431	AGAGGAGCGGAAAAAACCGGACGA	TCGTCCGGTTTTTTCCGCTCCTCT

10 1441 GGGCCGTAGAGGCATCGGGTAAAG CTTTACCCGATGCCTCACGGCCC 1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAAGCAGGTGAGCGGCG 1443 TGCCAAATCGCAACTCTTGAGACA TGTCTCAAGAGTTGCGATTTGGCA 1444 CCCCGATCGGGTGAACTCTTGAGACA TGTCTCAAGAGTTGCGATTTGGCA 1445 CAAGGTCCAGGTGACGCAACCACT AGGGAGAATTACACCCGATCGGGG 1445 CAAGGTCCAGGTGACGCAACCACT AGTGGTTGCGTCACCTGGACCTTG 1446 CGAGCCTTCAGTGGTATGCATGCG CGCATGCATACCACTGAAGGCTCG 1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACGCTGCTG 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTTGGTCCG 1449 CTACCACGCTCTGCGCGGGGTGTA TACAGCCCGCGCAGAGCGTGATAG 1450 ACGTGGTTAGGCATGACCGGATG CATCCGGCACATGACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGCCTAACCACGT 1452 GCGCCCAGGCTGTTTAAGAAAATA TATTTTCTAACACCAGCTGGGGGG 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGCGTGCCAGCT 1454 CGGTCGTAACCGCTTGAGTG CACTCAAGGTCCGGAGCGTGCCAGCT 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCG 1456 CGGCATCTCCGGACAAAAGTTAAC TATTTTTCAACACAGGCTGGGCGC 1457 TATCTTGTCGACACAATTCAGCA TGCTGAATTGTTCCAGAGGAACCA 1458 TGCAAAGGACAAAAGCTCCACTGAGC CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAAGGAAAAGCCCCATGAGC CTCCGAGTGGGCGCTCGACAAGATA 1458 TGCAAAGGAAAAGCCCCATGAGC CTCCGAGTGGGGCTTCTCCCTTGCA 1459 ACTGCATAGCCCAGAACAACCCCTTGC GCAACCGGATTTCTCCCTTTGCA 1460 TGTGATTCAGTCGAAAAGCCCCATGAGC CGGCCTTTCTCTCTTGCACAAGTT 1461 CATCCATCTACAATTCGGGCCAGT ACTGGGCCGAATTGTAGATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGAAT 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTTGGCTTTCGACTTGAATCACA 1463 ACACTGGAATTGCTAGAACCCCGCC CGCGGGGTCTACCAATTCAACTGTT 1464 CTGAGCTGCTGGAACAACACCCCGCC CGCGGGGTCTACCAATTCCACTGT 1464 CTGAGCTGCTGGGACAAACACCCCCGC CGCGGGGTCTACCAATTCCACTGT 1465 CAGCTACTAGAACCCCCGCC CGCGGGGTCTACCAATTCCACGTGT 1466 ATAATGATGGGACGACAACTCCCC CGCGGGGCCTTCTCCCCCCCCCC				
1434   GGCGCACTCCAATACCCACTGTTT		1432	GCGACGAAGAGATCCAGCAAGCTC	GAGCTTGCTGGATCTCTTCGTCGC
1435 GCGCTTGGAGACTGTCAGGACGTG CACGTCCTGACAGTCTCCAAGCGC 1438 CAAACCGCTGGTTTCTCCACCTGT ACAGGTGGAGAAACCAGCGGTTTG 1437 GCGATTGCTTGGGATCGGTGACTA TAGTCACCGATCCCAAGCAATCGC 1438 CTCAGCGACATTTTCTGGTGGCC CGCCACCAGAAAATGTCGCTGAG 1439 CAGCGGCGTCGTTTACTCAGGACT AGTCCTGAGTAAACGACGCCGCTG 1440 GACAGCCGTGAACGCTCAGCCGTT AACGGCTGAGACAAATGTCCCTGAG 1441 GGGCCGTAGAGGCATCAGCCGTT AACGGCTGAGCGTTCACGGCCCC 1442 CGCCGCTCACCTGGTTAAAGCATT ATGTTTTAAGCAGGCTCTACGGCCC 1442 CGCCGCTCACTGGTTAAAGCATT ATGTTTTAAGCAGGTTAGCGCCC 1444 CCCCGATCGGGTGAATTCCCCCT AGGGAGAATTACACCCGATCGGGG 1444 CCCCGATCGGGTGAATTCCCCCT AGGGAGATTACACCCGATCGGGG 1445 CAAGGTCCAGGTGACGCAACCACT AGTGGTTGCGACCTTGG 1446 CGAGCCTTCAGTGGTATGCATCCGCTTA TAAGTCAACCCGATCGGGG 1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCACACTGAAGGCTC 1448 CGGACCAAGATGGCAGCACCACT AGTGGTTGCGCACCTTGGTGCG 1449 CTACCACGCTCTCGGCTGATTA TAAGTCGAGTTAGCACCGTTGCG 1449 CTACCACGCTCTCGCCGGGCTGTA TAAGTCGAGCTTGCCG 1449 CTACCACGCTCTCGGCGGGCTGTA TAAGTCGAGCTTGCCGCGCAAGAGCTCGTGG 1450 ACGTGGTTAGGCATGACCGATC 1450 ACGTGGTTAGGCATGACCGATC 1450 ACGTGGTTAGGCATGACCGGTGCT 1451 CGACATATCCGACTGACCGATC 1452 GGGCCCAGGCTGTGTAGAAAATA TAATTTTCTAACACAGCCTGCTGCGCACTGCTGCGCACCTTGAGGACTTCAGACATTACACACAC		1433	GGGACTTCCAGCTGAGGGACGAAA	TTTCGTCCCTCAGCTGGAAGTCCC
1438 CAMACCGCTGGTTTCTCCACCTGT ACAGGTGGAGAAACCAGCGGTTTG 1437 GCGATTGCTTGGGATCGGTGACTA TAGTCACCGATCCCAAGCAATCGC 1438 CTCAGCGACATTTTTCTGGTGGCG CGCCACCAGAAAATGTCGCTGAG 1439 CAGCGGCGTGAACGCTCAGGCCT 1440 GACAGCCGTGAACGCTCAGCCGTT 1440 GACAGCCGTGAACGCTCAGCCGTT 1441 GGGCCGTAGAGGCTCAGGCTAAG 1442 CGCCGCTACACGCCTGTT AAACGCTGAGCGTCTCACGGCCC 1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAAGCAGGTGAGCGCCC 1444 CCCCGATCGGGTAAAGC CTTTCACCAGATGCCTCTACAGCGCC 1444 CCCCGATCGGGTAAAGCATT AATGCTTTAAGCAGTTGGGATTTGGCA 1444 CCCCGATCGGGTGAACCACT AGGGAGAATTACACCCGATCGGG 1445 CAAGGTCCAGGTGAACCACT AGGGAGAATTACACCCGATCGGG 1446 CGAGCCTTCAGTGGTATTCTCCCT AGGGAGAATTACACCCGATCGGGG 1447 CAGCAGCTGCACACCACT AGTGGTTGCGCACCTTGGACCTTG 1448 CGAGCCTTCAGTGGTATGCATCCACCTGAACAGGTCG 1449 CTACCACGCTCCGACCACCAC 1449 CTACCACGCTCGCGGGCTGTA 1448 CGGACCAACATGCAGCTGCCC 1449 CTACCACGCTCGGCGGGCTGTA 1449 CTACCACGCTCTGGCGGGCTGTA 1449 CTACCACGCTCTGGACGTAA 1450 AAGTTGGTTAGGCATGACCGGATG 1451 CGACATATCCGACATGACCGGAT 1452 GCGCCCAGGCTGTGTTAAAAAATA 1451 CGACATATCCGACATGACCGGATG 1452 CGGCCCAGGCTGTGTTAGAAAAATA 1451 AGCTGGGAACCACCTGACACTT 1452 CGGCCCAGGCTGTGTTAGAAAAATA 1451 ACTTCTCTCTGGAACAATTCAGAC 1455 TCGTTCCTCTGGACAACTT 1456 CGGCATCTCCGGACAATTCACACCTT 1457 TATCTTGTCCTGGACAACATTCAGAC 1457 TACCTTTGGAAAAAATA 1457 TATCTTGTCCGGACAAAAGGTTAAC 1458 TGCAAAGGGAAAAGCCCCAATGACC 1459 ACTGCATAGCCCGGACCACTGGAG 1459 ACTGCATAGCCCGGACCACTGGAG 1459 ACTGCATAGCCCAGACCACTGAAC 1459 ACTGCATAGCCCAGACCACTGCGAC 1450 TGTATTCACAAACACCCCGGACCTTGAACCACACCACGCTTTCCCGACAACGAT 1450 ACTGCATAGCCCAGACCACCCGGACCCTGGACACCACGCACCAAGAATACAA 1451 ACACCTGAAAAGCAATTCAGCA 1461 CATCCATCTAAAACAATCAAACAATCAAACAA 1452 ACACTGAAAAGCAATCAAACAATCAAACAATCAAACAAAC		1434	GGCGCACTCCAATACCCACTGTTT	AAACAGTGGGTATTGGAGTGCGCC
1437 GCGATTGCTTGGGATCGGTGACTA 1438 CTCAGCGACATTTTTCTGGTGGCG CGCCACCAGAAAAATGTCGCTGAG 1439 CAGCGGCGTGTTTACTCAGGACT AGTCCTGAGTAAACGACGCCGCTG 1440 GACAGCCGTGAACGCTCAGCCGTT AACGGCTGAGCGTTCACGCGCTGT 1441 GGGCCGTAAAGGCTCAGCCGTT AACGGCTGAGCGTTCACGGCTGTC 1442 CGCCGCTCACCTGCTTAAAGCATT ATGCCGATGCCTCTACGGCCC 1442 CGCCGCTCACCTGCTTAAAGCATT ATGCCTGATGCCTCTACGGCCC 1443 TGCCAAATCGCAACTCTTGAGACA TGTCTCAAGAGTTGAGCGCG 1444 CCCCGATCGGGTGAAGCATT ATGCTTTAACCAGGTGAGCGGGG 1444 CCCCGATCGGGTGACGCAACCACT AGTGGTTGCGTCACCTGGACCTTG 1446 CCAAGCTCACGGTGACGCAACCACT AGTGGTTGCGTCACCTGGACCTTG 1447 CAGCAGCGTGCCCATCCGACTTA TAAGTCGAAGAGTTCCACTGAGCCTTG 1448 CGGACCAAGATGGCAGCACCACT AGTGGTTACCACTGAGGGCG 1449 CTACCACGCTCTGCGCTGACTTA TAAGTCGAGAGGTGCCA 1450 ACGTGGTTAGGCATGACCCGCTGCTG 1451 CGACATATCCGACTGACCGTGCTG 1452 GCGCCCAGCCTTGCGCCCCCCACTCAGAGGCTTGCCT 1453 ACCTGGGACTAGACCGGATG 1454 CGGCCCAGCCTGTGTTAGAAAAAT ATATTTCAACACAGCCTGGGGG 1453 AACTGGGACCTCGGACCTTGAACTT AAGTTCAGACCACCGGT 1454 CGGTCGTAACCACTGAACATT 1455 TGGTTCCTCTGGAACAATTACACAC TGCTGAATTGTTCCAGAGGACCACC 1455 TGGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGACCAC 1455 TGGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACCAC 1455 TGGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACCAC 1456 CGGCATCTCCGGACAAAGGTTAAC TTACTTTCCAGAGGAACAAGAT 1456 CGGCATCTCCGGACAAAGGTTAAC TTACTTTCCAGAGGACCACGAAGAAA 1456 TGCATAGCCCACTCGGAG CTCCGAGGCCTTCACACGAT 1457 TATCTTTGTCAGACCACCTCGGAG CTCCCAGAGGCCTCGACAAGATA 1458 TCCAAGGGAAAACCCCCATGAGC CTCCGAGTGGCCCTCGACAAGATA 1458 TCCAAGGGAAAACCCCCATGAGC CCCCAAGGCCTCGACAAGATA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATTTCTCCCTTTGCA 1460 TGTGATTCAGTCAAAACACAAAA TCTTTGCCACCAAGATTGAACCAAAGATA 1458 TCCAAGGGAAAACCCCCAATGAC CCCGCGGGGGTTTAGCAATTTCACCATTTTCTCCCTTTGCAC 1460 TGTGATTCAGTCAAAACAAAAA TCTTTTGCGACCGAATTCCAGTTG 1460 TGTGATTCAGACCAAAGAAAAAAAAAAAAAAAAAAAAAA		1435	GCGCTTGGAGACTGTCAGGACGTG	CACGTCCTGACAGTCTCCAAGCGC
1438 CTCAGCGACATTITTICTGGTGGCG CGCCACCAGAAAAATGTCGCTGAG 1439 CAGCGGCGTCGTTTACTCAGGACT AGTCCTGAGTAAACGACCCCGCTG 1440 GACAGCCGTGAACGCTCAGCCGTT AACGGCTGAGCGTTCACGGCTGTC 1441 GGGCCGTAGACGCTCAGCGTT AACGGCTGAGCGTTCACGGCTGTC 1442 GGCCGTCACCTGCTTAAAGCATT AATGCTTTAAGCAGGTGAGCGGCCC 1443 TGCCAAATCGCAACTCTTGAGACA TGTCTCAAGAGTTGAGCAGCTCGGGCCC 1444 CCCCGATCGGGTGAATTCTCCCT AGGGAGAACACCCGATCGGGG 1445 CAAGGTCCAGGTGACCACCACT AGTGGTTGCGTCACCTGGACCTTG 1446 CGAGCCTTCAGTGTATGCATCACCCCGATCCGACCTTG 1447 CAGCAGCGTGCCCATCTCAGACTTA TAAGTCGAAATCACCACTGAACCTTG 1448 CGGACCAAGCACTATTA TAAGTCGAAATTACACCCGATCGGGC 1447 CAGCAGCGTGCCCATCTCAACTTA TAAGTCGAAATGGGCACCTTGGTCCG 1448 CGGACCAAGATGGCAGCACTATA TAAGTCGAAATGGGCACCTTGGTCAGCACTTGATACACCAGAATGGCACCACTTACACCATGAAGCTCGCTGCTGCACTTACACCACTGAAGCTTGGTTAGCACTTACACCAGATTGGGCACCACTTGACCACTAGACCACCACTTTAGGCACTACCACCAGATGGCACCACTTACACCACTACACCAGCTTGGTCCACCAGACTGCACCACTTGACCACTTACACCACCAGCTTGGTTAGCACATCACCACTTAGCCCAGAAGAGCGTGCTCCACCACTTACACCACCCGCCAGAGCGTGTACACCACCAGTTACACCACCACTTACACCACCCGCACACACCACTTACACCACCCGCACACACCACTTACACCACCCCGCCAGAGCCTTGACCACCTTACACCACCTTTACACACCCCCGGGCCGCAGAGCCCCACGACACCACCACCA	5	1436	CAAACCGCTGGTTTCTCCACCTGT	ACAGGTGGAGAAACCAGCGGTTTG
1439 CAGCGGCTCGTTTACTCAGGACT 1440 GACAGCCGTGAACGCTCAGCCGTT 1440 GACAGCCGTGAACGCTCAGCCGTT 1441 GGGCCGTAGAGGCATCGGGTAAAG 1442 CGCCGCTCACCTGCTTAAAGCATT 1443 TGCCAAATCGCAACTCTTGAGACA 1444 CCCCGATCGGGTGAACACTCTTGAGACA 1444 CCCCGATCGGGTGAATCCCCT 1445 CAAGGTCCAGTGTAATTCTCCCT 1446 CCACCATCGGGTGAACACCACT 1447 CAGCAGCTTCAGTGACACACCACT 1447 CAGCAGCGTGACGCAACCACT 1448 CGGACCAAGATTACACCCGATCGGACCTGACCTGACCTG		1437	GCGATTGCTTGGGATCGGTGACTA	TAGTCACCGATCCCAAGCAATCGC
1440 GACAGCCGTGAACGCTCAGCCGTT AACGGCTGACGGTTCACGGCTGTC  1441 GGGCCGTAGAGGCATCGGGTAAAG  1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAAGCAGGTGAGCGGCG  1443 TGCCAAATCGCAACTCTTGAGACA TGTCTCAAGAGTTGCGATTGGCA  1444 CCCCGATCGGGTGAATTCTCCCT AGGACACTTAAGCAGTTGAGCAGTTACACCCGATCGGGTGAACCACTTAAGCAGTTACACCCCGATCGGGGGTTAATCTCCCTTAAGCAACTTACACCCGATCGGGGCGTTAAGCACACTTAAGCAGATTACACCCCGATCGGAGCTTGACGACACTTAAGCAGATTACACCCCGATCGAACCTTAACACACTGAAGGCTCGCGAACCACTTAAGCACACTGAAGGCTCGCGAACCACTTAACACACTGAAGGCTCGCACCTGAAGACTTAACACCACTGAAGGCTCGCACCTGAAGACTTAACACCACTGAAGGCTCGCAACCACTTAACACACAC		1438	CTCAGCGACATTTTTCTGGTGGCG	CGCCACCAGAAAAATGTCGCTGAG
10 1441 GGGCCGTAGAGGCATCGGGTAAAG CTTTACCCGATGCCTCTACGGCCC 1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAAGCAGGTGAGCGGCG 1443 TGCCAAATCGCAACTCTTGAGACA TGTCTCAAGAGTTGCGATTTGGCA 1444 CCCCGATCGGGTGTAATTCTCCCT AGGGAGAATTACACCCGATCGGGG 1445 CAAGGTCCAGTGGAGTGACCACCACT AGGGAGAATTACACCCGATCGGGG 1445 CAAGGTCCAGTGGTATTCTCCCT AGGGAGAATTACACCCGATCGGGG 1447 CAGCAGCGTTCAGTGGTATGCATCG CGCATGCAACCACT AGTGGTTGCGACCTTG 1448 CGGACCAAGATGGCAGCTACT TAAGTCGAGATGGGCACGCTGCTG 1449 CTACCACGCTCTCGGCGGGCTGTA TACAGCCCGCGCAGAGCGTGCTG 1449 CTACCACGCTCTCGGCGGGCTGTA TACAGCCCGCGCAGAGCGTGCTG 1449 CTACCACGCTCTCGGCGGGCTGTA TACAGCCCGGCAGAGCGTGCTG 1450 ACGTGGTTAGGCATGACCGGTTC GACGCAGCTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGTG CATCCAGGCCCATGCCTAACCACGT 1452 GCGCCCAGGCTGTGTAGAAAATA TATTTTAACAACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCATGACCACTT AAGTTGAACAACACCCTGGGCGC 1454 CGGTCCTTAACCAGCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCCTTAGCACACTT AAGTTGAACAACACCCTGGGCGC 1455 TCGTTCCTTGGAACAATTCAGCA TGCTGAATTGTCCAGAGGAACCAGC 1455 TCGTTCCTTGGAACAATTCAGCA TGCTGAATTGTCCAGAGGAACCAA 1455 TCGTTCCTTGGAACAATTCAGCA TGCTGAATTGTCCAGAGGAACCAA 1458 TCCAAGGGACACACACTCGGAG CTCCAGAGTGCCGAGAAGATA 1458 TCCAAGGGACAAAGCCCCATGAGC GCTCATGGGCCTTTCCCCTTGCAA 1450 ACTGCATAGCCCAATCCGCTTGC GCAACCGGATTCTCCCTTGCAA 1450 ACTGCATAGCCCAATCCGCTTGC GCAACCGGATTCTCCCTTTCCCTTTCCATCAAGTTCCAGCTTTCCCCTTTCCATTCAAGTCCAAAGCCAAAAGCCCCCATGACC GCAACCGGATTCTCCCTTTCCCTTTCCATTACAATCACA 1460 ACACTGAAAAGCCCAAAGA TCTTTTGCATCTACAATCACA 1460 ACACTGAAATCACAACCCAAAGA TCTTTTGCATCAACACCAACTCCACCAATCCACCAACATCCACCAATCCACCA		1439	CAGCGGCGTCGTTTACTCAGGACT	AGTCCTGAGTAAACGACGCCGCTG
1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAAGCAGGTGAGCGGCG 1443 TGCCAAATCGCAACTCTTGAGACA TGTCTCAAGAGTTGCGATTTGCA 1444 CCCCGATCGGGTGAATTCTCCCT AGGGAAATTACACCCGATCGGGG 1445 CAAGGTCAGGTGACGCAACCACT AGTGGTTGCTACCTGGACCTTG 1446 CGAGCCTTCAGTGTGTATGCATCCG CGCATCGCACCTGAGGCTCG 1447 CAGCAGCGTGCCCATTCTCGACTTA TAAGTCGAGATGGGCACGCTGCACCTGGACGCTGACCTGAGACGCCACCACCACCACCACCACCACCACCACCACCAC		1440	GACAGCCGTGAACGCTCAGCCGTT	AACGGCTGAGCGTTCACGGCTGTC
1443 TGCCAAATCGCAACTCTTGAGACA TGTCTCAAGAGTTGCGATTTGGCA 1444 CCCCGATCGGGTGTAATTCTCCCT AGGGAGAATTACACCCGATCGGGG 1445 CAAGGTCCAGGTGACGCAACCACT AGTGGTTGCGTCACCTGGACCTTG 1446 CGAGCCTTCAGTGGTATGCATGCG CGCATGCATACCACTGAAGGCTCG 1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACGCTGCTGCACCTGGACTGCACTTGCACTTA TAAGTCGAGATGGGCACGCTGCTGCACCTTGCACTTA TAAGTCGAGATGGGCACGCTGCTGCACCTTGCACCTTA TAAGTCGAGATGGGCACGCTGCTGCACCTCTGCACGCTGCACCTCTCGACTTA TAAGTCGAGATGGGCACGCTGCTGCACCACCACCACCACCACCACCACCACCACCCAC	10	1441	GGGCCGTAGAGGCATCGGGTAAAG	CTTTACCCGATGCCTCTACGGCCC
1444 CCCCGATCGGGTGTAATTCTCCCT AGGGAGAATTACACCCGATCGGGGG 1445 CAAGGTCCAGGTGACGCAACCACT AGTGGTTGCGTCACCTGGACCTTG 1446 CGAGCCTTCAGTGGTATGCATGCG CGCATGCATACCACTGAAGGCTCG 1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACGCTGCTG 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCGCAGAGCCTGCTGC 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCGCAGAGCCTGTTAG 1450 ACGTGGTTAAGCAATGACCGGATG CATCCGGTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGCCTAACCACGT 1452 GCGCCCAGGCTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTTGACACTT AAGTTGTCAGACCGGTTACGACCGGTTACGACCTG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCCAGACGGAACCACGACTTCAGACACAGACCAGGAACCACACGACTTCAGACACAGACCAGAGAACCAACGACTTCAGACACACAC	•	1442	CGCCGCTCACCTGCTTAAAGCATT	AATGCTTTAAGCAGGTGAGCGGCG
1445 CAAGGTCAGGTGACGCAACCACT AGTGGTTGCGTCACCTGGACCTTG 1446 CGAGCCTTCAGTGGTATGCATGCG CGCATGCATACCACTGAAGGCTCG 1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACGCTGCTG 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCGCAGAGCGTGGTAG 1450 ACGTGGTTAGGCATGACCGGATG CATCCGGTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGCCTAACCACGT 1452 GCGCCCAGGCTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACCTCGGACCTTGAGTG CACCCAGGATCCCGAGCTCATGCCTAACCAGCT 1454 CGGTCGTAACCGCTTGAGTG CACTCAAGGTCCGAGATCCCAGCT 1455 TCGTTCCTCTGGAACACATT AGTTGTCACAGCGCGGAGACCGA 1455 TCGTTCCTCTGGAACAATTAAC GTTAACCTTTTCCAGAGGAACCA 1456 CGGCATCTCCGGACCATCACACTT AGTTGTCCAGAGGAACCAA 1457 TATCTTGTCGAGCGCACATCAGCA GTTAACCTTTTTCCAGAGGAACCAA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTCGGACAAGATA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGACTAGACT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGCCCTTGGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCGAATTGAACCA 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCGACTGAATTCACA 1463 ACACTGGAATTGAACCCCGCC CGCGGGGTCTAGCAATTCACA 1464 CATCCATCTACAATTCGGGCCCAGT ACTGGCCGAATTTGTAGATGGATG 1465 CAGCTACTAGAAACCCAAAGA TCTTTTGGCTTTCCACACGGCTCAG 1466 CTGAGCTGCGTGGAACACCCCGC CGCGGGGTCTAGCAATTCCACT 1466 CTGAGCTGCGTGGGACAACTCCCC GCGGGGTTCACCACGACTCAG 1466 ATAATGATGGGACGAGAAGCCCC GGGGCCTTCCCACGCACCTCAG 1467 CGACCGAGTGTTACCACTGCC GCGGAGTTGCCCACGCCCACGTCACACTCACGCCCACGACTCCACGCCCCACGACTCCACGCCCCACGCCCCCACGCCCCACGCCCCACGCCCCACCA		1443	TGCCAAATCGCAACTCTTGAGACA	TGTCTCAAGAGTTGCGATTTGGCA
1446 CGAGCCTTCAGTGGTATGCATGCG CGCATGCATACCACTGAAGGCTCG 1447 CAGCAGCGTGCCATCTCGACTTA TAAGTCGAGATGGCCACGCTGCTG 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCCAGAGCGTGTAG 1450 ACGTGGTTAGGCATGACCGCTC GACGCAGCCTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGCCTAACCACGT 1452 GCGCCCAGGCTGTTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACCCAGGTCCCAGCT 1454 CGGTCGTAACCGCTTGAGTG CACCCAGGTCCGAGCTCCCAGCT 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCCAGCGG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCCAGAGAACGA 1456 CGGCATCTCCGGACCATCAGCA TGCTGAATTGTCCAGAGAACGA 1457 TATCTTGCAGCCACATGAGC GCTCATGGGGCTTTCCCAGAGAACAA 1458 TGCAAGGGAGAAAGCCCCATGAGC CTCCGAGTGGCCCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTTGCA 1460 TGTGATTCAGTCGAAGCAAGCCCCATGAGC GCAAGCGGATCTGGGCTATGCAGT 1461 CATCCATCTACAATTCGGGCCAGT ACTGGGCCGAATTGTAGATGAGAG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTTGGCTTTCGACTGGATGAACCAGT 1463 ACACTGGAATTGCTAGACCCAGCC CGCGGGGTCTAGCAATTCACAA 1464 CTGAGCTGCTTCAGAATCGCCAGC CGCGGGGTCTAGCAATTCACAA 1465 CAGCTACTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1464 CTGAGCTGCTGGGACAACTCCCC GCGGGGTCTAGCAATTCACATTACAATTGGGGCCAGTTACCACGCCCCATGAGCTCAG 1465 CAGCTACTAGGGCCGCCCTAGTACCC GCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCCC GCGGGGTCTAGCAATTCCAGTGT 1465 CAGCTACTAGGGCCGCGAATGTACCC GGGGCCTTCCCACCAGCTCAG 1466 ATAATGATGGGACGACAACTCCCC GCGGGGCTTTCCGCCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGGCC 1468 TGCAGTACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		1444	CCCCGATCGGGTGTAATTCTCCCT	AGGGAGAATTACACCCGATCGGGG
1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACGCTGCTG 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCGCAGAGCGTGTAG 1450 ACGTGGTTAGGCATGAGCTGCGTC GACGAGCTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGTCGGATAGTCG 1452 GCGCCCAGGCTGTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGCCGGGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCCAGAGGAACGA 1456 CGGCATCTCCGGACCATGAGCA TGCTGAATTGTCCAGAGGAACGA 1457 TATCTTTGTCGAGACAAAAGGTTAAC GTTAACCTTTGTCCGGAGAATGCCC 1459 ACTGCAAGAGGCCCACTCGGAG CTCCGGAGTTTCCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGGTTTCCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATTCTGCAGTGAATCACA 1460 TGTGATTCAGTCGAAGCAAGGCCC CGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGCAGT 1462 ATGAGCCGTTCAGAAAGCCCAAAGA TCTTTTGGTTTCGACGAGTCAGT 1463 ACACTGGAATTGCTAGAAAGCCAAAGA TCTTTTGGTTTCTGAACGGCTCAT 1464 CTGAGCTGCGTGGGACAACCCCGCG CGCGTTGCTTCGACGAGCTCAGT 1465 CAGCTACTAGAAAGCCAAAGA TCTTTTGGCTTTCTGAACGGCTCAT 1466 ATAATGATGGGACGAGAAGCCCC GCGGAGTTGTCCCACGCAGCTCAG 1466 ATAATGATGGGACGAGAAGCCCC GGGGCCTTCTCCCTCCATCATTAT 1467 CGACCGAGTGTTACGACAATGCCC GGGGCCTTCTCTCGTCCCATCATTAT 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGCTAGCAT 1469 ATGCTAGCCCGCCCTCCACTAGT ACTAGTGGAGCGGCGCGTACCAC 1469 ATGCTAGCCGCCCCTTCACCTAGT ACTAGTGGAGCGGCGCTAGCAT 1470 AGACTCACTGCCGGCTGAACAAATCCCGCGGGCAGTGAGCTC 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGCT		1445	CAAGGTCCAGGTGACGCAACCACT	AGTGGTTGCGTCACCTGGACCTTG
1448 CGGACCAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCGCAGAGCGTGTAG 1450 ACGTGGTTAGGCATGACCTGCTC GACGCAGCTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGCCGAATATGTCG 1452 GCGCCCAGGCTGTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCCGGGTACCAGCT 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 25 1456 CGGCATCTCCGGACCATCGGAG CTCCAGAGTTGCCGGACAGATACCGC 1457 TATCTTTGTCGAGCGCCACTCGGAG CTCCCGAGTGCCGCTGCACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGACTAGATCACA 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTTCTCCATTGCAGTGAGCAGTACACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCGACTGAATCACA 1463 ACACTGGAATTGCTAGAACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGGGTCTAGCAATTCCAGTGT 1465 CAGCTACTAGGGCGCGATCTCGCC GCGGGGTCTAGCAATTCCAGTGT 1466 ATAATGATGGGACGAGAAGCCCC GGGGCCTTCTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTCCCATCATTAT 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGCTAGCAT 1469 ATGCTAGCGCCCGCTCCACTAGT ACTAGTGGAGCGGCGGTACTCCA 1469 ATGCTAGCGCCCGCTCCACTAGT ACTAGTGGAGCGGCGGTACCCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCCTAGCAT 1470 AGACTCACTGCCGCGTGTCAACAAT ATTTGATCAGCCGGCCGTGACCAT 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCCACCAGGCT	15	1446	CGAGCCTTCAGTGGTATGCATGCG	CGCATGCATACCACTGAAGGCTCG
1449 CTACCACGCTCTGCGCGGGCTGTA TACAGCCCGCGAGAGCGTGTAG 1450 ACGTGGTTAGGCATGAGCTGCGTC GACGCAGCTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGTCGGATATGTCG 1452 GCGCCCAGGCTGTTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGAACGA 25 1456 CGGCATCTCCGGACAAAAGGTTAAC GTTAACCTTTGTCCGGAGAATGCCG 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAAGGCCG CGGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTCAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTG 1464 CTGAGCTGCTGGGGACAACTCCGC GCGGGGTCTAGCAATTCCAGTGT 1465 CAGCTACTAGGGCGCGATGTACCC GGGGACTTGTCCACGCAGCTCAG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCCGTCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTCCATCATTAT 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCCTTCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCCTTCACTACA ATTTGACAGCCGGCAGTTAGCAT 1470 AGACTCACTGCCGGCGCTGCACAAAA ATTTTGACAGCCGGCAGTTAGCAT 1470 AGACTCACTGCCGGCGCTGCACAAAA ATTTTGACAGCCGGCAGTGAGCTC 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCCGCACCAGGCT		1447	CAGCAGCGTGCCCATCTCGACTTA	TAAGTCGAGATGGGCACGCTGCTG
1450 ACGTGGTTAGGCATGAGCTGCGTC GACGCAGCTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGTCGGATATGTCG 1452 GCGCCCAGGCTGTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCAGAGGAACGA 1457 TATCTTGTCGAGCGCACACAGGTTAAC 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGCATGCAGT 1460 TGTGATTCAGTCGAAGCAGCCCAGC CGCCTTGCTTCGAACTGAACCAGT 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGAAT 1462 ATGAGCCGTTCAGAAAGCCCAAAGA TCTTTGGCTTTCTCCATGATCACA 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCTGGACCAACACC GCCGGGGTTCAGCAATTCCAGTGT 1465 CAGCTACTAGGGCCCAGTTCACCCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCCCAGTTCACCCCGC GCGGAGTTGCCCACGCAGCTCAG 1466 ATAATGATGGGACAAGCCCCCGC GCGGAGTTGTCCCACGCAGCTCAG 1467 CGACCGAGTGTTACGACCCCCC GCGCAGTTCTCCCCACGACCTCAC 1468 TGCAGTACCCCCCCCCCCCCCCCCCCCCCCACATTATAT 1467 CGACCGAGTGTTACGACATGCCC 1468 TGCAGTACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		1448	CGGACCAAGATGGCAGTAATCCAG	CTGGATTACTGCCATCTTGGTCCG
20 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGTCGGATATGTCG 1452 GCGCCCAGGCTGTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACCTCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 1455 TATCTTGTCGAGCGACAAAGGTTAAC GTTAACCTTTGTCCGGAGAACGA 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTATCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGGGTCTAGCAATTCCAGTGT 1465 CAGCTACTAGGGCCGCATTACCC GCGGAGTTGTCCCACCGCAGCTCAG 1465 CAGCTACTAGGGCCGCATTACCC GCGGGGCCTTCCCACCACCACCTCAG 1466 ATAATGATGGGACCACTCCC GCGGGGCCTTCTCCCACCACCACCTCAG 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTC 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGTACTGCA 1469 ATGCTAGCGCCCCTCCACTAGT ACTAGTGGAGCGCGCGTACCAC 1469 ATGCTAGCGCCCCTGTCAACACTAC GTACGTTGACAGGCCCCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCCCACCAGGCC		1449	CTACCACGCTCTGCGCGGGCTGTA	TACAGCCCGCGCAGAGCGTGGTAG
1452 GCGCCCAGGCTGTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 25 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCACCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GCGGAGTTGTCCCACCAGCTCAG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCACCAGCTCAG 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTCCATCATTAT 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGTACTGCA 1469 ATGCTAGCGCCCCTCCACTAGT ACTAGTGGAGCGGCGGTACTGCA 1469 ATGCTAGCGCCCCTTCCACCTAC GTACGTTGACAGCTGCAT 1470 AGACTCACTGCCGCCTGAACAAT ATTTGATCAGCCGGCAGTAGCTT  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCCGCACCAGGCT		1450	ACGTGGTTAGGCATGAGCTGCGTC	GACGCAGCTCATGCCTAACCACGT
1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA  25 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCCACGCAGCTCAG 1466 ATAATGATGGGACGAGAAGGCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGTACTGCA 1469 ATGCTAGCGCGCCTCTCAACGTAC GTACGTTGACAGGCGCGCGTACCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGCTAGCCT 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTTCGCACCAGCC	20	1451	CGACATATCCGACATGACCGGATG	CATCCGGTCATGTCGGATATGTCG
1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA  1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GCGGAGTTGTCCCACCACGCTCAG 1466 ATAATGATGGGACGACAACTCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTACACCTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGCGCGTACCTCAC 1469 ATGCTAGCGGCCCTTCTCACCTACT ACTAGTGGAGCGCGCGTACCTCAC 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCCGTAGCAT 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCCCACCAGCC  1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCCCCACCAGCC  1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTTCCCCACCAGCC  1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTTCCCACCAGCC		1452	GCGCCCAGGCTGTGTTAGAAAATA	TATTTTCTAACACAGCCTGGGCGC
1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCCAGGCCG CGGCCTTGCTTCGACTGAATCACA 30 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGCTC 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1453	AGCTGGGACTCCGGACCTTGAGTG	CACTCAAGGTCCGGAGTCCCAGCT
25 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 30 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GCGGAGTTGTCCCACGCAGCTCAG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTTCTAACGTAC GTACGTTGACAGCGCGCTTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGCTC 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1454	CGGTCGTAACCGCTGCTACAACTT	AAGTTGTAGCAGCGGTTACGACCG
1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 30 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGCTC 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1455	TCGTTCCTCTGGAACAATTCAGCA	TGCTGAATTGTTCCAGAGGAACGA
1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA  30 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGCGCGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC	25	1456	CGGCATCTCCGGACAAAGGTTAAC	GTTAACCTTTGTCCGGAGATGCCG
1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA  1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1457	TATCTTGTCGAGCGCCACTCGGAG	CTCCGAGTGGCGCTCGACAAGATA
1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA  1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG  1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT  1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT  1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG  1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG  1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT  1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG  1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA  1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT  1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1458	TGCAAGGGAGAAAGCCCCATGAGC	GCTCATGGGGCTTTCTCCCTTGCA
1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1459	ACTGCATAGCCCAGATCCGCTTGC	GCAAGCGGATCTGGGCTATGCAGT
1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1460	TGTGATTCAGTCGAAGCAAGGCCG	CGGCCTTGCTTCGACTGAATCACA
1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC	30	1461	CATCCATCTACAATTCGGGCCAGT	ACTGGCCCGAATTGTAGATGGATG
1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG  1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT  1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG  1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA  1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT  1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1462	ATGAGCCGTTCAGAAAGCCAAAGA	TCTTTGGCTTTCTGAACGGCTCAT
1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG  1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT  1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG  1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA  1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT  1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1463	ACACTGGAATTGCTAGACCCCGCG	<del></del>
1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT  1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG  1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA  1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT  1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1464	CTGAGCTGCGTGGGACAACTCCGC	GCGGAGTTGTCCCACGCAGCTCAG
1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1465	CAGCTACTAGGGCGCGATGTACCC	GGGTACATCGCGCCCTAGTAGCTG
1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC	35	1466	ATAATGATGGGACGAGAAGGCCCC	GGGCCTTCTCGTCCCATCATTAT
1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC	•	1467	CGACCGAGTGTTACGACATGGTGC	GCACCATGTCGTAACACTCGGTCG
1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		<del></del>	TGCAGTACCCGCCGCTCCACTAGT	ACTAGTGGAGCGGCGGGTACTGCA
40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1469	ATGCTAGCGCGCCTGTCAACGTAC	GTACGTTGACAGGCGCGCTAGCAT
		1470	AGACTCACTGCCGGCTGATCAAAT	ATTTGATCAGCCGGCAGTGAGTCT
1472 GGAAAGTTGGCGGATCCGAGCACT AGTGCTCGGATCCGCCAACTTTCC	40	1471	GCCTGGTGCGAAGATAGGGATTCC	GGAATCCCTATCTTCGCACCAGGC
		1472	GGAAAGTTGGCGGATCCGAGCACT	AGTGCTCGGATCCGCCAACTTTCC

1489 CATCCCTCGAGGTGTAGGCAACAC GTGTTGCCTACACCTCGAGGGATG 1490 CAGATGCACTCCGACGGGATTCAG CTGAATCCCGTCGGAGTGCATCTG 1491 CTGAGCCTCGCGAAGCTGTGGCAT ATGCCACAGCTTCGCGAGGCTCAG 1492 GCTATGCCACGCCGCAGATAGAGC GCTCTATCTGCGGAGGCTCAG 1493 AACACCAACCATACCGTCCGTTCA TGAACGGACGGTATGGTTGGTGTT 1494 GCCCAGAGCTAAAGCATGTCTGGG CCCAGACATGCTTTAGCTCTGGGC 1495 AATGCTGCAATGCTAGCGTCGCTA TAGCGACGCTAGCATTGCAGCATT 1496 TCCGGACGCAGTATCCAATCCGGA TCCGGATTGGATACTGCGTCCGGA 1497 TAAGACCATGTGGCACCAAGGTGC GCACCTTGGTGCCACATGGTCTTA 1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGGCCTGTGTTGGCTGT 1499 TAGAACCGAGCACGCGCCCACTA TAGTGGGGGCCGTGTTGTGGCTGT 1499 TAGAACCGAGCACGGCGCCTTGTA TACAAGGCGCCGTCCTGGTTCTA 1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCTGCCAGCTTACTCGAA 1501 CTTTCGCAGGTTCGCAGACAATCC GGATTGCTGCGAACCTGCGAAAG 1502 TACGTCCTGTGTGTGTGACACCGG CCGGTGCTCGGAACCTTACTCGAA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACAACAGGGG 1506 CCCTCGGTGTTCAAGCCCAAATC GATTTGGCTTGAACACACACGGGG 1507 CCCGCGAACATTTGAACACCTTAA TTAAGCTGTTCAACACACACGGGG 1508 CCGTGTCAGTTTGAACACGCTTAA TTAAGCTGTTCAAAAACCCCGGGGGGGGCAACTTGGCC 1508 CCCTCGGTGTTTCAAGCCCAAATC GATTTGGCTTTGAACACACCCGAGGG 1508 CCGTGTCAGTTTGAACACGCTTAA TTAAGCTGTTCAAAATGTTCGCGGGG 1508 CCGTGTCAGTTTGAACACGCGC CGTGCCCAGGGAGCAACTGACACGGGGGGTTTCAACAAGCTTAAA TTAAGCTGTTCAAAATGTTCGCGGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCCAGGGAGCAACTGACACGGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCCAGGGAGCAACTGACACGGGGGTTTCAACAGCGAGAGCAACTGACACGGGGGGTTTCAACAGCGAGGAGCAACTGACACGGGGGTTTCAACAGGGGAGCAACTGACACGGGGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGGAGCAACTGACACGGACACACGCAGGACACTGACACGGACCACGGAGCAACTGACACGGACACTGACACGGACACACGCGAACATTAAA				
1475		1473	GGCAGTGAGCAATGTGTGACGAGG	CCTCGTCACACATTGCTCACTGCC
1476 GTCGAGGAATATCATCGCAGCCAG CTGGCTGCGATGATATTCCTCGAC 1477 GCGAATGCAACGAGACAAGAAGAA TCCTTCTTGTCTCGTTGCATTCGC 1478 TTCGCCACCAAGTCGGCATTTGTT AACAAATGCCGACTTGCGTGCATTCGC 1478 CGGTGGCTGACACTTGCCGGATTC AACAAATGCCGACATTGCTGCCCACA 1480 CAAGGAGCAATCAGATGGTCCGAG CTCCGACCATCTGATTGCTCCTTG 1481 GTGACCCGGTCCGTTCTAGCTGTG CACACCATCTGATTGCTCCTCTTG 1482 CTCTCGCCCACATACTGCACAAA TTTGTGCAGCAACGGACCGGGTCAC 1483 AAACCTGCCTAAGCAGCACCAAA TTTGTGCAGTTTAGTGGGCGAGAG 1483 AAACCTGCCTAAGCAGCACCAGA TCCAGTGCTTTGCTT		1474	TGAGGTCCTCCCGGCGGACTACGA	TCGTAGTCCGCCGGGAGGACCTCA
1477   GCGAATGCAACGAGACAGAAGGA   TCCTTCTTGTCTCGTTGCATTCGC     1478   TTCGCCACCAAGTCGGCATTTGTT   AACAAATGCCGACTTGGTGGCGAA     1479   CGGTGGCTGACACTTGCCGGATTC   GAATCCGGCAAGTGTCAGCCACCG     1480   CAAGGAGCAATCAGATGGTCGGAG   CTCCGACCATCTGATTGCTCCTTG     1481   GTGACCCGGTCCGTTCTAGCTGTG   CACAGCTAGAACGGACCGGTCAC     1482   CTCTCGCCCACATAACTGCACAAA   TTTGTGCAGTTTAGTGGCGGAGAG     1483   AAACCTGCCTAAGCAGACACTGGA   TCCAGTGCTTAGGCAGGAT     1484   TTCCATATTGTACCCCGCGCATGC   GCATGCGCGGGGTACAATATGGAA     1485   TGCTTGCGATATCACGATACTGCG   GCATGCGCGGGGTACAATATGGAA     1486   TTAGTGTTCGAGCCTTGCG   GCATGCGCGGGGTACAACAACAA     1487   CTTGTTGCGCGGAGTCCGTCTGGGA   TCCCAGACGAGCACACACA     1488   GTCAGCTCCTGAGCCGGC   GCCGGCTCAAGGCTCGACCACACA     1489   CATCCCTCGAGGTGTCATCCG   CTCAGACCGCGAGCACCACAGA     1489   CATCCCTCGAGGGTTCAG   TCCCAGACCGCGAGCACCACAG     1490   CAGATGACCTCCGACGGGATTCAG   CTGAATCCCGTCGGAGTCTCG     1491   CTGAGCCTCGCAAGCTGTGGCAT   ATGCCACAGCTTCGCGAGGCATCAG     1492   GCTATGCCACGCCGCAGATAGAG   GTGTTGCCTACACCTCGAGGGATCAG     1493   AACACCAACCATACCGTCCGTTCA   TGAACCGAGCGTTTGCGCATCTG     1494   GCCCAGAGCTAAGCATTCTCGGC   CCCAGACATGCTTTGCGGAGGCTCAG     1495   AATGCTGCAATGCTTGCGTCGTTCA   TGAACGGACGCTTTAGCTCTGGGT     1496   TCCGGACGCAGTATCCAATCCCGTA   TAGCGACGCTTTAGCTCTGGGAT     1497   TAGAACCAATGCTTAGCGTCGCTA   TAGCGACGCTTTAGCTCTGGGAT     1498   ACCACCAACCATTGCTGCGTA   TAGCGACGCTTTTAGCTCTGGGC     1499   TAGAACCAAGCATTCCAATCCGGA   TCCCGAATTGCATTGCAGCATT     1499   TAGAACCAAGCACGCCCCCACTA   TAGTGGGGCGTTGTGTGGCTTTA     1499   TAGAACCAAGCACGCCCCCACTA   TAGTGGGGCGTTGTGTGGCTTTA     1500   TTCGGAGTACACCTGGAGACCACT   AGTGGTCCTGCAACCTTCCGAAA     1501   TTCGAGGTCAATGTTTGACCACCGG   CCGGTTTCACCACACCTCGAAA     1502   TACCTCTGTGCTGTTTGACCACCGG   CCGGTTTCACCACACCTCGAAA     1503   GTCGGGTCAATGTTTGACCCGGA   TCTCCCCGAAACATTCCCGAAC     1504   CCTTGTGTGAACCCCAAATC   GATTTGCTCAACACCCCGAACA     1505   GCCGGGTCAATGTTTGACCCGACCACCACACACCCCGCGCCTTCTCAACCCGGCGCCTTTCAACCCGGCGCTTCTACCCGGATTAA     1507   CCCGCGAACATTTGAACCCCGATAT   TTATCTGGGGTTCACACA		1475	CTCGCCTTAGATCGTGGTTCCGCA	TGCGGAACCACGATCTAAGGCGAG
1478 TTCGCCACCAAGTCGGCATTTGTT AACAAATGCCGACTTGGTGGCGAA 1479 CGGTGGCTGACACTTGCCGGATTC GAATCCGGCAAGTGTCAGCCACCG 1480 CAAGGAGCAATCAGATGGTCGGAG 1481 GTGACCCGGTCCGTTCTAGCTGTG CACACCTAGATCGTCTCTTCTG 1482 CTCTCGCCCACATAACTGCACAAA TTTGTGCAGTTTATGTGCTGCTTG 1483 AAACCTGCCTAAGCAGCACTGGA TCCAGTGCTTTAGGGCAGAGG 1483 AAACCTGCCTAAGCAGCACTGGA TCCAGTGCTTTAGGCAGGTT 1484 TTCCATATTGTACCCGGCGCATGC GCATGCGCGGGGTACAATATGGAA 1485 TGCTTGCGGCAGATACTGCG GCATGCGCGGGGTACAATATGGAA 1486 TTAGTGTTCGAGCCTGGC GCATGCGCGGGGTACAATATGGAA 1488 TTCTTGTGCGCCAGATACTGCG GCATGCGCGGGGTACAACACTAA 1488 GTCAGCTTGCGCTTGAGCCGGC GCCGGCTCAAGGCTCGACACACAA 1488 GTCAGCTGCCTGTGGTGCTCTTC GAAGAGCACCACACAGCAGCACACAAG 1489 CATCCCTGCAGGGTGTAGGCCAGC GTGTTGCTCAAGCCTGACACACTAA 1490 CAGATGCACTCCGACGGGATTCAG GTGAATCCCGTCGAAGGATC 1490 CAGATGCACTCCGACGGGATTCAG 1491 CTGAGCCTCGACGGAGTTCAG 1492 GCTATGCCACCACGAGGAAGCTTCAGCAATCCCGCAAGAGCTCAG 1493 AACACCAACCATACCGTCCGTTCA 1494 GCCCAGAGCTATAGAGC GCTCTATCTGCGGCGTGGCCATAGC 1494 GCCCAGACCATACCGTCCGTTCA 1495 AATGCTGCAATGCTTCGCGCAAGCATTTTTCGCGGCGTGGCCATAGC 1495 AATGCTGCAATGCTTCAGCGTCAT 1496 CCCCAGACATTACAGC CCCAGACATGCTTTTACTGCGCCTTGCGGA 1495 AATGCTGCAATGCTTCAGCGTCATACACACACATGCTTTTACTGCGCCTTGCGGC 1496 AATGCTGCAATGCTTACCAGTC TAGACCCGCTAGCATTTCAGCCCTCAGA 1498 ACACCAACCATGCGTCCGTTA TAGCGACCGTTTGCATTCAGCGCTTAA 1498 ACAGCCACACACACGCCCCCACATACAGTG 1499 TAGAACCGACGCCCCACATACAGTG 1499 TAGAACCGACCACACACGCCCCCACTA 1498 ACAGCCACACACACGCCCCCACTA 1500 TTCGCAGGTTGCAGCACACT 1501 TTCGCAGGTTCAGCTTTTACACCCGC 1500 TTCCGAGTTGCAGCCACACACACCCGCCCCCTTATA 1500 TTCGCAGGTCAATGTTTTGCGGGAGAC 1501 TACGTCCTTGTTTGACACCCG 1502 GCACATTGCTGCTGCTGTTTAA 1500 TTCGCAGGTCAATGTTTTGCGGCAGACATTACTCGGAA 1501 CCTTTGCAGCTCAATTTTTCGGGGAGAACATTCGCAAACCCTTCCGCAAACATTGCCCGAACATTGCAGCCCGCCTTTGATACCCAAACCCTTCCCAAACCCTTCCCAAACACCTTCCCGAAACATTGCAGCCAACAACACACCCGACCAACACACAC		1476	GTCGAGGAATATCATCGCAGCCAG	CTGGCTGCGATGATATTCCTCGAC
1479 CGGTGGCTGACACTTGCCGGATTC 1480 CAAGGAGCAATCAGATGGTCGAG 1480 CAAGGAGCAATCAGATGGTCGAG 1481 GTGACCCGGTCCGTTCTAGCTGTG 1481 GTGACCCGGTCCGTTCTAGCTGTG 1482 CTCTCGCCCACATAACTGCACAAA 11482 CTCTCGCCCACATAACTGCACAAA 11483 AAACCTGCCTAAGCAAGCACCAAA 11484 TTCCATATTGTACCCCGCGCATGC 1485 TGCTTGCGATTACTGGA 1486 TTAGTGTTCGAGCCTTGAGCCGGC 1486 TTAGTGTTCGAGCCTTGAGCCGGC 1487 CTCTGTCCGAGCTTGAGCCGGC 1488 GTCAGTCCTTGAGCAGCCTTGAGC 1488 GTCAGTCCTTGAGCAGCCTTGAGC 1489 CATCCCTCGAGGTGTCTTC 1489 CATCCCTCGAGGTGTAGCCGGC 1489 CATCCCTCGAGGTGTAGACCAC 1489 CATCCCTCGAGGTGTAGACCAC 1489 CATCCCTCGAGGTGTAGACCAC 1489 CATCCCTCGAGGTGTAGACCAC 1489 CATCCCTCGAGGTGTAGACCAC 1491 CTGAGCCTCGCGAAGCTTGAGC 1491 CTGAGCCTCGCGAAGCTTGAGC 1492 GCTATGCCCACCCGCAGATACACC 1493 AACACCAACCATACCGTCCGTTCA 1494 GCCCAGAGCTAACACC 1495 AATGCTGCAAGCCTCCGTTCA 1496 TCCGGACGCAGATACACC 1496 AACACCAACCATACCGTCCGTTCA 1496 TCCGGACGCAGATACCAC 1497 TAAGACCATACCGTCCGTTA 1498 ACACCAACCATGCGTCCGTTA 1498 ACACCAACCATGCGTCCGTTA 1498 ACACCAACCATGCGTCCGTTA 1498 TCCGGACGCAGATACCACCTCCGTTCA 1498 ACACCACACACACCACCCCCCATA 1498 ACACCACACACACCACCCCCCATA 1498 ACACCACACACACCACCCCCCATA 1498 ACACCACACACACCACCCCCCATA 1498 ACACCACACACCACCCCCCATA 1498 ACACCACACACACCGCCCCATA 1498 ACACCACACACACCCGCCCATA 1498 ACACCACACACACCGCCCCATA 1498 ACACCACACACACCGCCCCATA 1498 ACACCACACACACCGCCCCATA 1500 TTCGAGTAACCTTGCAGCCCCCATA 1500 TTCGAGTAACCTTGCAGCCCCCATA 1501 CTTTCCCAGGTTCGTGTA 1500 TTCGAGTCAAGCTTGCAACACTC 1501 CCTTTTCGCAGGTTTTACACCCGG 1502 TACCTCTGTGTGTTGTAACACCCG 1503 GTTCGAGTCAATGTTTCGGAACCCACACACACACACACAC	5	1477	GCGAATGCAACGAGACAAGAAGGA	TCCTTCTTGTCTCGTTGCATTCGC
1480 CAAGGAGCAATCAGATGGTCGGAG 1481 GTGACCCGGTCCGTTCTAGCTGTG 1481 GTGACCCGGTCCGTTCTAGCTGTG 1482 CTCTCGCCACAATAACTGCACAAA 1483 AAACCTGCCTAAGCAGCACTGGA TCCAGTGATTGTGTGGGCGAGAG 1483 AAACCTGCCTAAGCAGCACTGGA TCCAGTGCTTGCTTAGGCAGGAGTT 1484 TTCCATATTGTACCCCGGCCATGC GCATGCCGGGGTACAATATGGAA 1485 TGCTTGGGATATCACGATACTGCG GCAGGGTACAATATGGAA 1486 TTAGTGTTCGAGCCTTGAGCCGGC GCCGGCTCAAGGCTCGAACACTAA 1487 CTTGTTGCGCGAGTCCTGCGGA TCCCCAGACGGACTCGCAACAACG 1488 GTCAGCTGCTGCTGGTGCTCTTC GAAGACCACAGCAGCAGCAGCAGCAACACTAA 1489 CATCCCTCGAGGTGTAGGCAACAC GTGTTCCCTACACCTCGAGGAGTGCATCTG 1490 CAGATGCACTCCCGACGGGATTCAG CTGAATCCCGTCGAGGCAGCTGAC 1491 CTGAGCCTCGCGAAGCTGTGGCAT 1492 GCTATGCCACGCCGCAGATACAGC GCTCTATCTGGCGAGGCACTCG 1493 AACACCAACCATACCGTCCGTTCA TGAACCCAGCATGCAGTTGGCATTAG 1494 GCCCAGAGCTAAAGCATGCTTCA TGAACCACAGCTTGGCATTGGCTTTAGCTCTGGGA 1495 AATGCTGCAATCCGTCCGTTCA TAGCCACAGCTTTGAGCTTTGGCAATCACCTTGGAGAGCTCAGC 1496 AATGCTGCAATCCGTCCGTTCA TAGCGACGGTATGGTTGTTT 1496 TCCGGACGCAGCATACAGC GCCCAGACATGCTTTAGCTCTGGGC 1497 TAAGACCATGCTGCGTCCTA TAGCGACGCTTAGCATTCCAGCATT 1498 ACAGCCACACACACGCGCCCACATA TAGCGACGCTTGGTCCTGCAATCCGGATTGATCTGAGCATT 1498 ACAGCCACACACACGCGCCCCACTA TAGCGACGCTTGGTCCTGCACATTCCAGA 1501 TTCGAGTAAGCTGGCACCAAGCTGC GCACCTTGGTGCCACATGGTCTTA 1498 ACAGCCACACACACGCGCCCCACTA TAGCGGGCCCTGTGTTGTGGGCTGT 1499 TAGAACCGAGCACGCGCCCACTA TAGCGGGGCCTGTGTGTGGGCTGT 1499 TAGAACCGAGCACCACACGCGCCCCACTA TAGCGGGGCCTGTGTTGTGGGCTGAAAG 1501 TCCGGGTTCGCAGACAATCC GGATTGCTCGCAACCTTCCGAAAG 1501 TCCGGGTTCGAGACAATCC GGATTGTCTCGCAAACCTCCGAAAG 1501 TCCGGGTCAATGTTTCGGGGGAGA TCTCCCCGAAACCTTCACAAACCCCGAGGG 1506 CCCTGGGTGTTCAAGCCCAACACCCGGGCCCCTTAA TATTGGGGTTCAAACCCCGAACG 1506 CCCTGGTGTTTTAAACAGCTTAA TTATCTGGGGTTCAAAACCCCTTCACAAACCCCGAGGG 1507 CCCCGCGAACATTTGAACACGCC CCGCTTCAAACCCCGAGGGG 1509 TCCGCTCAAATTTGAACACGCTTAA TTATCTGGGGTTCAAAAACCCCTTTCACAACACACACACGGGGGTTCAACCCGGACCTTTCAACCCGGACCTTTCAAAACCCCTTTCAAAACCCCTTTCAAAACCCCTTTCAAAACCCCTTTCAACCCGGACCAATTCAACCAAACCCGAGGGGTTCAAACCCGGACCAAATCTAACCCGAACCTGAACCAAATCCAACACGGGGGTTCAAACCCGGCTCCCTATCC GACCAAATCCAACCCGGCTTCAAATCC		1478	TTCGCCACCAAGTCGGCATTTGTT	AACAAATGCCGACTTGGTGGCGAA
1481 GTGACCCGGTCCGTTCTAGCTGTG 1482 CTCTCGCCCACATAACTGCACAAA 11TGTGCAGTTAGTGTGGGCGAGAG 1483 AAACCTGCCTAAGCAAGCACTGGA TCCAGTGCTTAGTGGGCAGAGTT 1484 TTCCATATTGTACCCCGCGCATGC CATGCAGGATTCGTTAGGCAGGTTT 1485 TGCTTGCGATATCACCATACTGCG CGCAGTACCGTGATATCGCAAGCAA 1485 TTAGTGTTCGAGCCCTTGAGCCGGC GCCGGCTCAAGGCTTGAACACTAA 1486 TTAGTGTTCGAGCCTTCAGGCAGGC GCCGGCTCAAGGCTCGAACACACACA 1488 GTCAGCTGCTGCTGGTGCTCTTC GAAGAGCACCAGCAGCAACACAGA 1489 CATCCCTCGAGGTGTAGGCAACAC GTGTTGCCTACACCCTGAGGGATG 1490 CAGATGCACTCCGACGGGATTCAG CTGAATCCCGTCGAGGGATG 1491 CTGAGCCTCCGACGGGATTCAG CTGAATCCCGTCGAGGGATGCATCTG 1491 CTGAGCCTCCGACGGAATCAG GCTCTATCTGCGAGGGTCATCG 1492 GCTATGCCACGCCGCAGATAGAGC GCTCATCTTGCGAGGGTCATAGC 1493 AACACCAACCATACCGTCCGTTCA TGCACAGCTTCGCGAGGCTCAG 1494 GCCCAGAGCTAAAGCATGTCTGGG CCCAGACATGCTTTAGCTCTGGGC 1495 AATGCTGCAAGCATCACGTCCGTTCA TGCACAGCTTTAGCTCTGGGC 1496 AATGCTGCAAGCATCAGCTCCGTTCA TGCACAGCTTTAGCTCTGGGC 1497 TAAGACCATGCTACCATCCGGA 1498 ACAGCCACACCACAGGAGTACCGGCCCACAT 1498 TCCGGACGCAGATTCAGATTGCAGCATT 1499 TAGAACCGAGCACACACAGGGCCCCACTA TAGCGAGGGCTGTGTGTTGGCTGTA 1499 TAGAACCGAGCACCACAGGCGCCCACTA TAGCGAGGCCTGTGTGTTGGCTTGA 1499 TAGAACCGAGCACCACAGCAGGGCCCACTA TAGCGGGGCCTGTGTGTGTGGCTTGT 1499 TAGAACCGAGCACCACAGCAGGGCCCACTA TAGTGGGGGCCTGTGTGTGTGGCTTGA 1500 TTCGAGTAAGCTGGCAGCACACAC GGATTGCACACACACACACACACACACGGCGCCCACTA TAGTGGGGGCCTGTGTGTGTGGCTTGA 1501 CTTTCGAGGTCAATGTTTCGGGGAGA TCCCCGGAACACATGCCGAACGTACCTGCAAAGCCCGACCTACACACAC		1479	CGGTGGCTGACACTTGCCGGATTC	GAATCCGGCAAGTGTCAGCCACCG
10 1482 CTCTCGCCCACATAACTGCACAAA TTTGTGCAGTTATGTGGGCGAGAG 1483 AAACCTGCCTAAGCAAGCACTGGA TCCAGTGCTTAGGCAGGTTT 1484 TTCCATATTGTACCCCGCGCATGC GCATGCCTGAGCAGGAGTTT 1485 TGCTTGCGATATCACGATACTGCG GCATGCGCGGGGTACAATATGGAA 1486 TTAGTGTTCGAGCCTGGG GCCGGCTCAAGGCTGCAACCACACA 1486 TTAGTGTTCGAGCCTGGG GCCGGCTCAAGGCTCGAACCACACA 1487 CTTGTTGCGCAGTCCTCTGCGG TCCCAGACCGACCACACACA 1488 GTCAGCTGCTGCTGTGGTGCTCTTC GAAGAGCACCCAACACACACACACACACACACACACAC		1480	CAAGGAGCAATCAGATGGTCGGAG	CTCCGACCATCTGATTGCTCCTTG
1483 AAACCTGCCTAAGCAAGCACTGGA TCCAGTGCTTAGGCAGGTTT 1484 TTCCATATTGTACCCCGCGCATGC GCATGCCGGGGTACAATATGGAA 1485 TGCTTGCGATATCACGATACTGCG GCAGTATCGTGATATCGCAAGCA 1486 TTAGTGTTCGAGCCTGGCG GCCGGGTCAAGGCTCGAACCACTAA 1487 CTTGTTGCGCAGTCCGTCTGGGA TCCCAGACGGACTCGGCAACCAG 1488 GTCAGCTGCTGCTGGTGCTCTTC AAAGAGCACCAGCAGGCAGCACCAC 1489 CATCCCTCGAGGTGTAGGCAACAC GTGTTGCCTACACCTGGAGGATGCATCAC 1490 CAGATGCACTCCGACGGGATTCAG CTGAATCCCGTCGAGGGATGCATCAG 1491 CTGAGCCTCGCGAAGCTGTGGCAT ATGCCACAGACGAGGCAGCACAC 1492 GCTATGCCACGCGCAGATAGAGC GCTCTATCTGCGAGGGCTCAG 1493 AACACCAACCATACCGTCCGTTCA TGAACCGACGGTTGGCTATGC 1494 GCCCAGACCTACCGTCCGTTCA TGAACGGACGGTTTGGTGTT 1495 AATGCTGCAATGCTACCGTCCGTTA TAGCGACGCTATTGCACCTTGGGCATTAGC 1496 AATGCTGCAATGCTACCGTCCGTTA TAGCGACGCTAGCATTTGCAGCATT 1496 TCCGGACGCACATACCGTCCGTA TAGCGACGCTAGCATTTTAGCTCTGGG 25 1497 TAAGACCATGTGGCACCACACAGGTGC GCACATTTTAGCTCTGGC 25 1497 TAAGACCATGTGGCACCACAAGGTGC GCACCTTTGTGAGCACTTTA 1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGCGCTGTGTTA 1498 ACAGCCACACACACGCGCCCCACTA TAGTGGGGCGTTGTGGTTTA 1500 TTCGAGGTAGACTGTGTA TACAAGGGGCCGTGTCTGGGTTCTA 1501 TTTCGAAGTAGCTGGCAGCACACAC GGGTCTCTGCAACCTTCCGAACA 1501 TCTTTCGAGGTTCGCAGCACACACCGG 1503 GTTCGGGTTCAACCGG CCGCTTGTA TACAAGGGGCCGTGCTGGATTCA 1503 GTTCGGGTTCAAGCCAACACCGG 1504 CCCTGTTGTGAACACCGG CCGGTTCTCCAACCTGCAACATTCCCGAAC 1505 GGCAGATTGGTAACCCAGACACACC 1506 CCCTCGGTTTTGAACACCGG CGGTTCTCAACACACACACACGGA 1507 CCCGCGAACATTTTCGAGCAAATC 1508 GTCCGGTCAATGTTTTCAACCCGAAC 1508 CCCTCGGTTGTTTTAACAAGCCTAAACACTTGAACACACCCGAACGAA		1481	GTGACCCGGTCCGTTCTAGCTGTG	CACAGCTAGAACGGACCGGGTCAC
1484 TTCCATATTGTACCCCGCGCATGC GCATGCGCGGGGTACAATATGGAA 1485 TGCTTGCGATATCACGATACTGCG CGCAGTATCGTGATATCGCAAGCA 1486 TTAGTGTTCGAGCCTTGAGCCGGC GCCGGCTCAAGGCTCGAACACTAA 1487 CTTGTTGCGCGAGTCCGTCTGGGA TCCCAGACGGACTCGGCAACAAG 1488 GTCAGCTGCCTGCTGGTGCTCTTC GAAGACGCACCAGCAGCAGCTGAC 1489 CATCCCTCGAGGTGTAGGCAACAC GTGTTGCCTACACCTCGAGGGAT 1490 CAGATGCACTCCGACGGGATTCAG CTGAATCCCGTCGAGGAGTCACT 1491 CTGAGCCTCGCGAAGCTGTGGCAT ATGCCACAGCTTGCGAGGGTCAC 1492 GCTATGCCACGCCGCAGATAGAGC GCTCTATCTGCGAGGGTCAG 1493 AACACCAACCATACCGTCCGTTCA TGAATCCCGTCGGAGGTTCAG 1494 GCCCAGAGCTAACGCTCCGTTCA TGAACCCACGCGTTGGCATAGC 1495 AATGCTGCAACCCTCGTTCA TGAACCGACGGTTGGCATAGC 1496 CCCCAGAGCTAACGCTCCGTTCA TGAACCGACGGTTGGCATAGC 1497 TAAGACCAATCCTTCGGG CCCAGACATGCTTTAGCTCTGGGC 1498 ACACCCAACCATACCGTCCGTTCA TGAACGGACGTAGCATTGCAGCATT 1498 TCCGGACGCAGATACCATCCGGA TCCGGATGGATACTGCAGCATT 1498 ACACCCACACACGCGCCCACTA TAGCGACGCTAGCATTGCAGCATT 1498 ACACCCACACACGCGCCCACTA TAGTGGGGCCTTGTGTGGTCCTGA 1499 TAGAACCGAGCACCACCAAGGTGC GCACCTTGGTGCTGTGTGTGTGTCTA 1499 TAGAACCGAGCACCGCGCCCACTA TAGTGGGGGCCTTGTGAGCTGTT 1499 TAGAACCGAGCACGGCGCCCACTA TAGTGGGGCCTTGTGTGGTGTG	10	1482	CTCTCGCCCACATAACTGCACAAA	TTTGTGCAGTTATGTGGGCGAGAG
1485 TGCTTGCGATATCACGATACTGCG CGCAGTATCGTGATATCGCAAGCA 1486 TTAGTGTTCGAGCCTTGAGCCGGC GCCGGCTCAAGGCTCGAACACTAA 15 1487 CTTGTTGCGCGAGTCCGTCTGGGA TCCCAGACGGACTCGCGCAACAAG 1488 GTCAGCTGCCTGCTGGTGCTCTTC GAAGAGCACCAGCAGGCAGCTGAC 1489 CATCCCTCGAGGTGTAGGCAACAC GTGTTGCCTACACCTCGAGGGATG 1490 CAGATGCACTCCGACGGGATTCAG CTGAATCCCGTCGGAGGTACTCG 1491 CTGAGCCTCGCGAAGCTGTGGCAT ATGCCACAGCTTGCGAGGGTCTAC 1492 GCTATGCCACGCGCAGATAGAGC 1493 AACACCAACCATACCGTCCGTTCA TGAACGGACGGTTGGCTGTGTACACCACCACCACCAACCA		1483	AAACCTGCCTAAGCAAGCACTGGA	TCCAGTGCTTGCTTAGGCAGGTTT
1486 TTAGTGTTCGAGCCTTGAGCCGGC GCCGGCTCAAGGCTCGAACACTAA 1487 CTTGTTGCGCGAGTCCGTCTGGGA TCCCAGACGGACTCGCGCAACAAG 1488 GTCAGCTGCCTGCTGGTGCTCTTC GAAGAGCACCAGCAGGCAGCTGAC 1489 CATCCCTCGAGGTGTAGGCAACAC GTGTTGCCTACACCTCGAGGGATG 1490 CAGATGCACTCCGACGGGATTCAG CTGAATCCCGTCGAGGGATG 1491 CTGAGCCTCGCGAAGCTGTGGCAT ATGCCACAGCTTGCGAGGGTCAC 1492 GCTATGCCACGCCGCAGATAGAGC GCTCATCTGCGAGGGCTCAG 1493 AACACCAACCATACCGTCCGTTCA TGAACGGACGGTGGCATAGC 1494 GCCCAGAGCTAACCGTCCGTTCA TGAACGGACGGTATGGTTGGTGTT 1495 AATGCTGCAATGCTTCGGG CCCCAGACATGCTTTAGCTCTGGGC 1496 TCCGGACGCATATCCAATCCGGA TCCGACAGCTTTGACTCTGGGC 1497 TAAGACCATGCTAGCGTCGCTA TAGCGACGCTAGCATTGCAGCATT 1498 ACAGCCACACACACACGCGCCCACTA TAGTGGGGCCACACATGCTTTA 1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGCCGTGTGTGTGCACTTA 1500 TTCGAGTAAGCTGGCACCACTA TAGTGGGGCCGTGTCTGGAACATCCGAA 1501 CTTTCGCAGGTTCGCAGCACACACACGCGCCCACTA 1501 CTTTCGCAGGTTCGCAGCACACACACGCGCCCACTA 1501 CTTTCGCAGGTTCGCAGCACACACCGGCCCACTA 1502 TACGTCCTGTGCTGTTGACACCGG CCGGTGTCACCACGAACA 1503 GTTCGGGTCAATGTTTCACACCGG CCGGTGTCACACACACACACACACACACACCGCGCCCACTA 1504 CCCTGTTGTGAGAGCCACATCC GGATTGTCTGCAACACACCCGCAACA 1505 GGCAGATTGGTGCAGCACAATCC GATTTGTCTGCAACACACCCGAACA 1506 CCCTGGTGTTTCACACCCGG CCGGTGTCACACACACCACAC		1484	TTCCATATTGTACCCCGCGCATGC	GCATGCGCGGGGTACAATATGGAA
15 1487 CTTGTTGCGCGAGTCCGTCTGGGA TCCCAGACGGACTCGCGCAACAAG 1488 GTCAGCTGCCTGCTGGTGCTCTTC GAAGAGCACCAGCAGGCAGCAGCAGACAAG 1489 CATCCCTCGAGGTGTAGGCAACAC GTGTTGCCTACACCTCGAGGGATG 1490 CAGATGCACTCCGACGGGATTCAG CTGAATCCCGTCGAGGGATGCATCTG 1491 CTGAGCCTCGCGAAGCTGTGGCAT ATGCCACAGCTTGCGGAGGCTCAG 1492 GCTATGCCACGCCGCAGATAGAGC GCTCTATCTGCGGCGTGGCATAGC 1493 AACACCAACCATACCGTCCGTTCA TGAACGGACGGTTGGTGTT 1494 GCCCAGAGCTAAGCATGCTTCA TGAACGGACGGTATGGTTGTT 1495 AATGCTGCAATGCTACGCTCGCTA TAGCGACGGTAGCATTGCAGCATT 1496 TCCGGACGCAGTAAGCATCCGTA TAGCGACGCTAGCATTGCAGCATT 1497 TAAGACCATGTGGCACCACAAGCTGC GCACCTTGGTGCCACATTGCAGCATT 1498 ACAGCCACACACACAGCGCCCACTA TAGTGGGGCCTGGTCTGTA 1499 TAGAACCGACCACCACCACTA TAGTGGGGCCTTGTGTTGGCTCTTA 1500 TTCGAGTAAGCTGGCACCACTA TACTGGGGCCTCGGTTCTA 1501 CTTTCGCAGGTTCGCAGGACCACTC GGATTGTCTGCAGCTTCCAA 1501 CTTTCGCAGGTTCGCAGAACCATCC GGATTGTCTGCAGCACCTCCGAAC 1502 TACGTCCTGTGTGTGACACCG CCGGTTCCTGCAACCTGCCAACG 1503 GTTCGGGTCAATGTTTGGGGAGA 1504 CCCTGTTGTGACACCGG CCGGTTCACAACACCCGCAAC 1505 GGCAGATTGGTAACCCCAAATC GATTTTCTGGAGACCTGCCAAC 1506 CCCTCGGTTGTTCAAGCCCAAATC GATTTGCTGGAACCACCACAACCGGG 1506 CCCTCGGTTGTTCAAGCCCAAATC GATTTGCTTGAACACACACACAGGACGTA 1507 CCCGCGAACATTTGAACCCCAAATC GATTTGCTTGAACACACCACAACCGGG 1508 CCGTGTCAAGTTGCTCCCTGGCACC CGTGCCAAGCACTTAACAACACCCGAGGG 1509 TCCGTCTCAGCCCCCCCTATCC GGATAGGGAGCAACATTCCCGGG 1509 TCCGTCTCAGCCCCCCCCCTATCC GGATAGGGAGCGAACATTCCCGGG 1501 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTTGTGTACCCCGCTTCCCTTACACACCGCCTTCCCTTACCACACCGCGCTTGTTCTAA 1511 ATAGGCAAGCCGGTCTAGCACAGCC CGCTGTGCTACCCCGCTTCCCTTTCACAACCCGCCTTCCCTTTCACAACCCGCCTTCCCTTTCACAACCCGCCTTCCCTTTCACAACCCCCACCTTTCTCACAACCCCCACCTTTCTCCCCGGAACCATTTCAACACCCCCACCTCTTCCCCGGAACCATTCCACACCGGCGCTTGAACCCCCACCTCCCTTTCCCCGGAACCATTCCACACCGGCGCTTGAACCCCCACAGCCGCCTCCCTATCC GGATAGGGAGGCGCCTGAACCCCACACCCGCTTCCCTTACC GGATAGGGAGCGCCTGAACCCCACCACCCCCCTCCCTATCC GGATAGCGACCCCCCCCCC		1485	TGCTTGCGATATCACGATACTGCG	CGCAGTATCGTGATATCGCAAGCA
1488 GTCAGCTGCCTGGTGGTGCTCTTC GAAGAGCACCAGCAGGCAGCTGAC 1489 CATCCCTCGAGGTGTAGGCAACAC GTGTTGCCTACACCTCGAGGGATG 1490 CAGATGCACTCCGACGGGATTCAG CTGAATCCCGTCGGAGGATG 1491 CTGAGCCTCGCGAAGCTGTGGCAT ATGCCACAGCTTCGCGAGGCTCAG 1492 GCTATGCCACGCCGCAGATAGAGC GCTCTATCTGCGGCGTGGCATAGC 1493 AACACCAACCATACCGTCCGTTCA TGAACGGACGGTATGGTGTT 1494 GCCCAGAGCTAAGCATGTCTGGG CCCAGACATGCTTTAGCTCTGGGC 1495 AATGCTGCAATGCTGCGTA TAGCGACGCTAGCATTGCAGCATT 1496 TCCGGACGCAGTATCCATCCGGA TCCGGACATGCTTTAGCTCTGGGC 1497 TAAGACCATGTCTAGCGTCGTA TAGCGACGCTAGCATTGCAGCATT 1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGGCGTGGTTGTA 1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGGCGTGGTTGTA 1499 TAGAACCGAGCACGCGCCCACTA TAGTGGGGGCGTGTGTGGCCGTA 1500 TTCGAGTAAGCTGCAGACAATCC GGATTGTCTGCAGAACATCCGAA 1501 TCTTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTCCGAAACATCCGAACACACCGCGCCCTGTTACTCGAA 1502 TACGTCCTGTGCTGTTGACACCCGG CCGGTGTCACAACACACGCACAACA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGCGGGCTTTGTA TCACAACACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAACCATGACCTA 1506 CCCTCGGTGTTTCAAGCCCAAATC GATTTGGCTTCACAACACCGGGG 1506 CCCTCGGTGTTTCAAGCCCAAATC GATTTGGCTTCACAACACCGGGGG 1507 CCCGCGAACATTTGAACACCTTAA TTATCTGGGGTTCACCAACCACGAGGA 1508 CCGTGTTGTAAACACCCCAGATAA TTATCTGGGGTTCACCAACCACGAGGG 1509 TCCGTCTCAGCCCCTCCCTATCC GATTGGCTTCAAAACCCCGAGGG 1509 TCCGTCTCAGCCCCTCCCTATCC GGATAGGGAGGCGGCTGAGACCGGACGAACATTGACCCGAGCGACCTAT 1511 ATAGCTGGGTCACCAGGCGCTCCTATC 1511 ATAGCTGGGTCACCCGCCTCCTATCC GGATAGGGAGGCGGCTGAGACCGCTAT 1511 ATAGCCAAGCCGGTCTGGATTTGCGT ACCCCAAATCCAGCCCTTCCCTATCAACCCGCTTCCCTATCAACCCGCTTCCCTATCAACCCGCCTTCCTATCAACCCGCCTTCCTATCAACCCGCCTTCCTATCAACCCCGCTTCCCTATCAACCCGCCTTCCTATCAACCCCGCTTCCCTATCAACCCGCTTGCCTATCAACCCGCTTGCCTATCAACCCGCTTTCCCTTGCCCCCCCC		1486	TTAGTGTTCGAGCCTTGAGCCGGC	GCCGGCTCAAGGCTCGAACACTAA
1489 CATCCCTCGAGGTGTAGGCAACAC GTGTTGCCTACACCTCGAGGGATG 1490 CAGATGCACTCCGACGGGATTCAG CTGAATCCCGTCGGAGTGCATCTG 1491 CTGAGCCTCGCGAAGCTGTGGCAT ATGCCACAGCTTCGCGAGGCTCAG 1492 GCTATGCCACGCCGCAGATAGAGC GCTCTATCTGCGGCGTGGCATAGC 1493 AACACCAACCATACCGTCCGTTCA TGAACGGACGGTATGGTTGTGTGT 1494 GCCCAGAGCTAAAGCATGTCTGGG CCCAGACATGCTTTAGCTCTGGGC 1495 AATGCTGCAATGCTAGCGTCGCTA TAGCGACGCTAGCATTGCAGCATT 1496 TCCGGACGCAGTATCCAATCCGGA TCCGGATTGGATACTGCGGC 1497 TAAGACCATGTGGACACCAAGGTGC GCACCTTTGGTGCCACATGCTTTA 1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGCGCTGTGTGTGGCTCTTA 1499 TAGAACCGAGCACGCGCCCACTA TAGTGGGGGCGTGTGTGTGGCTGT 1499 TAGAACCGAGCACGCGCCCACTA TACTGGGGCCTGTCTGAA 1500 TTCGAGTAAGCTGGCAGACCACT AGTGGTCCTGCAACGTTCCAAA 1501 CTTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTGCGAAAG 1502 TACGTCCTGTGCTGTTGACACCGG CCGGTGTCACACAGGACGTA 1503 GTTCGGGTCAATGTTTCGGGGAAA 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCGG CCGGTGTCACAACAGCACAGGACGTA 1506 CCCTCGGTGTTCAAGCCAAATC GATTTGGCTTCACAACAGGG 1506 CCCTCGGTTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGAGCAACATTCCCGGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGCGAACCTGACCAGGGACGAACATTGACCCGAACATTGACCCGAGGG 1501 ATAGCTGGGTCACCACAGGCG CGTGCCAGGAGCGAACCTGACCAGGAACATTGAACACCCGAGGA 1502 TACGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGAGCAACTGACCAGGGAGCAACTTGAACACCCGAGGGAGCAACTTGACCACGGGGTTCACCAACAGGGGAGCAACTGACCAGGGAGCAACTTGAACACCCGAGGGAGCAACTGACCAGGGAGCAACTTGAACACCCGAGGGAGCAACTGACCAGGGAGCAACTGACCAGGGAGCAACCTGACCAGGAGAACATTGAACACCCGAGGAACATTGAACACCCGAGGAACATTGAACACCCGAGGAACATTGAACACCCGAGGAACATTGAACACCCGAGGAACATTGAACACCCGAGGAACATTGAACACCCGAGGAACATTGAACACCCGAGGAACATTGAACACCCGAGGAACATTGAACACCCGAGGAACACTGACCAGGAATAA TTAAGGCTGTCAAAAACCCCTTCACAACAGGGAACAATAAAAACCCCTTCAACAGGGAGAACAATCCAGCGGAGCAACTGACCAGGAAAAAAACCCCTTCAACAGGAAAAACACCCGAGGAGAAAAAAACCCCTTCAACAGGGAAAAAAACCCCTTCAACAGGAATCAAAAAACCCCTTCAACAGGAATCAACACCGAGGAAAAAAACACCCGAGGAAAAAAACACCCGAGAAAAAA	15	1487	CTTGTTGCGCGAGTCCGTCTGGGA	TCCCAGACGGACTCGCGCAACAAG
1490 CAGATGCACTCCGACGGGATTCAG CTGAATCCCGTCGGAGTGCATCTG 1491 CTGAGCCTCGCGAAGCTGTGGCAT ATGCCACAGCTTCGCGAGGCTCAG 1492 GCTATGCCACGCCGCAGATAGAGC GCTCTATCTGCGGCGTGGCATAGC 1493 AACACCAACCATACCGTCCGTTCA TGAACGGACGGTATGGTTGTGTT 1494 GCCCAGAGCTAAAGCATGTCTGGG CCCAGACATGCTTTAGCTCTGGGC 1495 AATGCTGCAATGCTAGCGTCGCTA TAGCGACGCTAGCATTGCAGCATT 1496 TCCGGACGCAGTATCCAATCCGGA TCCGGATTGCATCCGGA 25 1497 TAAGACCATGTGGCACCAAGGTGC GCACCTTGGTGCCACATGGTCTTA 1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGGCGTGTGTGTGGCTGT 1499 TAGAACCGAGCACCACGCGCCCACTA TAGTGGGGGCGTTGTGTGGCTGT 1500 TTCGAGTAAGCTGGCAGCACACTC GGATTGCTGCCACATCTCGAA 1501 CTTTCGCAGGTTCGCAGACACTC GGATTGTCTGCAACCTGCGAACG 1502 TACGTCCTGTGCTGTTGACACCGG CCGTGTCTACTCGAA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTAACCCCAGATAA TTATCTGGGGTTCACCAACACGGG 1506 CCCTCGGTGTTCAAGCCAAATC GATTTGGCTTGAACACACGGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGAACACCCAGGCGCCCTTCAACATGTTCCCGGGG 1509 TCCGTCTCAGCCGCCCCCCTATCC GGATAGGGAGCGAACCTGACACGGG 1509 TCCGTCTCAGCCGCCCCCCCTATCC GGATAGGGAGCGACCTGACACGGGACGAACATTGACCCCAGCTAT 1511 ATAGGCAAGCGGTTTAGCACCGG CGCTGTGCTACACCCGCTTTCAAA		1488	GTCAGCTGCCTGCTGCTCTTC	GAAGAGCACCAGCAGCAGCTGAC
1491 CTGAGCCTCGCGAAGCTGTGGCAT ATGCCACAGCTTCGCGAGGCTCAG 1492 GCTATGCCACGCCGCAGATAGAGC GCTCTATCTGCGGCGTGGCATAGC 1493 AACACCAACCATACCGTCCGTTCA TGAACGGACGGTATGGTTTGGTGTT 1494 GCCCAGAGCTAAAGCATGTCTGGG CCCAGACATGCTTTAGCTCTGGGC 1495 AATGCTGCAATGCTAGCGTCGCTA TAGCGACGCTTAGCATTGCAGCATT 1496 TCCGGACGCAGTATCCAATCCGGA TCCGGATTGGATACTGCGTCCGGA 1497 TAAGACCATGTGGACCAAAGGTGC GCACCTTGGTGCCACATGGTCTTA 1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGGCGTGTGTGTGGTGCTGT 1499 TAGAACCGAGCACCACACACGCGCCCACTA TACAAGGCGCGTGTGTGTGTGACTACT 1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCCAGCTTACTCGAA 1501 CTTTCGCAGGTTCGCAGACACACC GCGTGCCCAGCTTACTCGAA 1502 TACGTCCTGTGTGTGACACCGG CCGTGTCAACAGCACACAGCACACACACGGGAACATCC GGATTGTCTAACACAGCACAAGGACCTA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTTCAACCCAAATC GATTTGGCTTGAACACACGAGGG 1507 CCCGCGAACATTTGAACCCAAATC GATTTGGCTTGAACACACCGAGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGAGCAACTGACACGGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGCGACCAACTGACCACGGACAATA TTAAGCTGTTCAAAATGTTCGCGGGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGCGGCTTGAACACACGGACAACATTGACCCAACTTAA TTAAGCTGTTCAAATTGTCCGCGGGACAATATA TTAAGCTGTTCAAAATGTTCGCGGGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGCGGCTTGAACACACGGACAATTAA TTAAGCTGTTCAAAATGTTCGCGGGACAACATTGACCACAGGGACAACTTAACACACCGGGAGCAACTGACACAGGGACAACTGACACAGGGACAACTGACACAGGGACGAACATTGACACACGGGACGAACATTGACACACGGGACGAACATTGACACACGGGACGACTAACACACCACACACA		1489	CATCCCTCGAGGTGTAGGCAACAC	GTGTTGCCTACACCTCGAGGGATG
20 1492 GCTATGCCACGCCGCAGATAGAGC GCTCTATCTGCGGCGTGGCATAGC 1493 AACACCAACCATACCGTCCGTTCA TGAACGGACGGTATGGTTGTT 1494 GCCCAGAGCTAAAGCATGTCTGGG CCCAGACATGCTTTAGCTCTGGGC 1495 AATGCTGCAATGCTAGCGTCGCTA TAGCGACGCTAGCATTGCAGCATT 1496 TCCGGACGCAGTATCCAATCCGGA TCCGGATTGGATACTGCGGCCGGA 25 1497 TAAGACCATGTGGCACCAAGGTGC GCACCTTGGTGCTCTTA 1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGGCGTGTGTGGCTTTA 1499 TAGAACCGAGCACGCGCCCACTA TAGTGGGGGCGTGTGTGGCTGT 1499 TAGAACCGAGCACGCGCCCACTA TAGTGGGGGCCTTGTACTCGAA 1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCTGCCAGCTTACTCGAA 1501 CTTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTGCGAACA 1502 TACGTCCTGTGTGTGTAGCACCCGG CCGGTGTCAACAGGACCTAC 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAACACATTGACCCGAAC 1504 CCCTGTTGTGAACGCGAGA TCTCCCCGAACAATTGACCCGAAC 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACACACACACGGG 1506 CCCTCGGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCCAACCGGG 1507 CCCGCGAACATTTGAACAGCTAAAT TTATCTGGGGTTCAAATCTTGCCGGG 1508 CCGTGTCAGCTGCCCTGCACG CGTGCCAGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGCAACTGACACGG 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTTGAGACCGGACGAC 1511 ATAGGCAAGCCGACTGCACACGC CGCTGTCACACCCGCTTAT 1511 ATAGGCAAGCCGGTTTGGATTTGCGT ACGCAAATCCAGCCGCTTCTAA		1490	CAGATGCACTCCGACGGGATTCAG	CTGAATCCCGTCGGAGTGCATCTG
1493 AACACCAACCATACCGTCCGTTCA TGAACGGACGGTATGGTTGTT  1494 GCCCAGAGCTAAAGCATGTCTGGG CCCAGACATGCTTTAGCTCTGGGC  1495 AATGCTGCAATGCTAGCGTCGCTA TAGCGACGCATTGCAGCATT  1496 TCCGGACGCAGTATCCAATCCGGA TCCGGATTGGATACTGCGGCAGCATT  1497 TAAGACCATGTGGCACCAAGGTGC GCACCTTGGTGCCACATGGTCTTA  1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGGCGTGTGTGTGGCTGT  1499 TAGAACCGAGCACGGCGCCACTA TACTGGGGCCGTGCTCGGTTCTA  1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCTGCCAGCTTACTCGAA  1501 CTTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTGCGAAAG  1502 TACGTCCTGTGTGTGACACCGG CCGGTGCAACAGGACCGTA  1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC  1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG  1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACAACAGGGG  1506 CCCTCGGTGTTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG  1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG  1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAACATTCGCCGGG  1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGAACTGACACGGA  1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGGTGACCCAGCTAT  1511 ATAGGCAAGCCGGTTTGCGT ACGCAAATCCACCGGTTGCCTAT  1511 ATAGGCAAGCCGGTTTGCGT ACGCAAATCCAGCCGGTTCTAA		1491	CTGAGCCTCGCGAAGCTGTGGCAT	ATGCCACAGCTTCGCGAGGCTCAG
1494 GCCCAGAGCTAAAGCATGTTTGGG CCCAGACATGCTTTAGCTCTGGGC 1495 AATGCTGCAATGCTAGCGTCGCTA TAGCGACGCTAGCATTGCAGCATT 1496 TCCGGACGCAGTATCCAATCCGGA TCCGGATTGGATACTGCGTCCGGA 1497 TAAGACCATGTGGCACCAAGGTGC GCACCTTGGTGCCACCATGGTCTTA 1498 ACAGCCACACACGCGCCCCACTA TAGTGGGGCGCTGTGTGTGGCTGT 1499 TAGAACCGAGCACCACGCGCCCACTA TACAAGGCGCCCGTGCTCGGTTCTA 1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCTGCCAGCTTACTCGAA 1501 CTTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTGCGAAAG 1502 TACGTCCTGTGCTGTTGACACCGG CCGTGTCAACAGCACAGGACGTA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGCACCTGACACGGA 1510 ATAGCTGGTCACCACAGGCGGTC GACCGCCTTGCCTAT 1511 ATAGGCAAGCGGTTTGCGT ACCCCAATCCACCGCTTTCTAA	20	1492	GCTATGCCACGCCGCAGATAGAGC	GCTCTATCTGCGGCGTGGCATAGC
1495 AATGCTGCAATGCTAGCGTCGCTA TAGCGACGCTAGCATTGCAGCATT  1496 TCCGGACGCAGTATCCAATCCGGA TCCGGATTGGATACTGCGTCCGGA  1497 TAAGACCATGTGGCACCAAGGTGC GCACCTTGGTGCCACATGGTCTTA  1498 ACAGCCACACACGCGCCCACTA TAGTGGGGGCGTGTGTGTGGCTGT  1499 TAGAACCGAGCACGGCGCCCACTA TACAAGGCGCCGTGCTCGGTTCTA  1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCTGCCAGCTTACTCGAA  1501 CTTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTGCGAAAG  1501 CTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTGCGAAAG  1502 TACGTCCTGTGCTGTTGACACCGG CCGGTGTCAACAGCACAGGACGTA  1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC  1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG  1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC  1506 CCCTCGGTGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG  1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG  1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG  1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACGGA  1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGACCCAGCTAT  1511 ATAGGCAAGCGGTTAGCACAGCG CGCTGTCTACACCCGCTTGCCTAT  1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGCCGGTTTCTAA		1493	AACACCAACCATACCGTCCGTTCA	TGAACGGACGGTATGGTTGGTGTT
1496 TCCGGACGCAGTATCCAATCCGGA TCCGGATTGGATACTGCGTCCGGA 1497 TAAGACCATGTGGCACCAAGGTGC GCACCTTGGTGCCACATGGTCTTA 1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGGCGTGTGTGGGCTGT 1499 TAGAACCGAGCACGGCGCCTTGTA TACAAGGCGCCGTGCTCGGTTCTA 1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCTGCCAGCTTACTCGAA 1501 CTTTCGCAGGTTCGCAGCACATCC GGATTGTCTGCAACCTGCGAAAG 1502 TACGTCCTGTGCTGTTGACACCGG CCGGTGCAACAGCACAGGACGTA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGCGACCAACTGACACGG 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGGCTTTCAA		1494	GCCCAGAGCTAAAGCATGTCTGGG	CCCAGACATGCTTTAGCTCTGGGC
25 1497 TAAGACCATGTGGCACCAAGGTGC GCACCTTGGTGCCACATGGTCTTA 1498 ACAGCCACACACGCGCCCACTA TAGTGGGGGCGTGTGTGTGGCTGT 1499 TAGAACCGAGCACGGCGCCCTTGTA TACAAGGCGCCGTGCTCGGTTCTA 1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCTGCCAGCTTACTCGAA 1501 CTTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTGCGAAACG 1502 TACGTCCTGTGCTGTTGACACCGG CCGGTGCAACACACGGACGTA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTTCAAGCCAAATC GATTTGGCTTGAACACACGGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGCTGAGACGGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTTAGCACAGCG CGCTGTGCTACACCGCTTTCAA		1495	AATGCTGCAATGCTAGCGTCGCTA	TAGCGACGCTAGCATTGCAGCATT
1498 ACAGCCACACACACGCGCCCACTA TAGTGGGGGCGTGTGTGGCTGT 1499 TAGAACCGAGCACGGCGCCTTGTA TACAAGGCGCCGTGCTCGGTTCTA 1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCTGCCAGCTTACTCGAA 1501 CTTTCGCAGGTTCGCAGACCACT AGTGGTCCTGCCAGCTTACTCGAA 1501 CTTTCGCAGGTTCGCAGACCATC GGATTGTCTGCGAACCTGCGAAAG 1502 TACGTCCTGTGCTGTTGACACCGG CCGGTGTCAACAGCACAGGACGTA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGCTGAGACGGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTTAGCACAGCG CGCTGTGCTACACCGCTTTCAA		1496	TCCGGACGCAGTATCCAATCCGGA	TCCGGATTGGATACTGCGTCCGGA
1499 TAGAACCGAGCACGGCGCCTTGTA TACAAGGCGCCGTGCTCGGTTCTA 1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCTGCCAGCTTACTCGAA 1501 CTTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTGCGAAAG 1502 TACGTCCTGTGCTGTTGACACCGG CCGGTGTCAACAGCACAGGACGTA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACCGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGGCTTTCAA	25	1497	TAAGACCATGTGGCACCAAGGTGC	GCACCTTGGTGCCACATGGTCTTA
1500 TTCGAGTAAGCTGGCAGGACCACT AGTGGTCCTGCCAGCTTACTCGAA 1501 CTTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTGCGAAAG  1502 TACGTCCTGTGCTGTTGACACCGG CCGGTGTCAACAGCACAGGACGTA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGGGGCTGAGACGGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGGCTTCTAA  40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA		1498	ACAGCCACACACGCGCCCACTA	TAGTGGGGGCGTGTGTGTGGCTGT
1501 CTTTCGCAGGTTCGCAGACAATCC GGATTGTCTGCGAACCTGCGAAAG  1502 TACGTCCTGTGCTGTTGACACCGG CCGGTGTCAACAGCACAGGACGTA  1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAACATTGACCCGAAC  1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG  1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC  1506 CCCTCGGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG  1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG  1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG  1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACGGA  1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT  1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTTCCAAA		1499	TAGAACCGAGCACGGCGCCTTGTA	TACAAGGCGCCGTGCTCGGTTCTA
1502 TACGTCCTGTGCTGTTGACACCGG CCGGTGTCAACAGCACAGGACGTA 1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACGGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTTGCCTAT  40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA		1500	TTCGAGTAAGCTGGCAGGACCACT	AGTGGTCCTGCCAGCTTACTCGAA
1503 GTTCGGGTCAATGTTTCGGGGAGA TCTCCCCGAAACATTGACCCGAAC 1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACGGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTTGCCTAT  40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA		1501	CTTTCGCAGGTTCGCAGACAATCC	GGATTGTCTGCGAACCTGCGAAAG
1504 CCCTGTTGTGAAGGGGTTTTGTGA TCACAAAACCCCTTCACAACAGGG 1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACGGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTGCCTAT 40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA	30	1502	TACGTCCTGTGCTGTTGACACCGG	CCGGTGTCAACAGCACAGGACGTA
1505 GGCAGATTGGTGAACCCCAGATAA TTATCTGGGGTTCACCAATCTGCC 1506 CCCTCGGTGTTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG 1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACGGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTTGCCTAT 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA		1503	GTTCGGGTCAATGTTTCGGGGAGA	TCTCCCGAAACATTGACCCGAAC
1506 CCCTCGGTGTGTTCAAGCCAAATC GATTTGGCTTGAACACACCGAGGG  1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG  1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG  1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACGGA  1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT  1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTGCCTAT  40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA		1504	CCCTGTTGTGAAGGGGTTTTGTGA	TCACAAAACCCCTTCACAACAGGG
1507 CCCGCGAACATTTGAACAGCTTAA TTAAGCTGTTCAAATGTTCGCGGG 1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACGGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTGCCTAT 40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA		1505	GGCAGATTGGTGAACCCCAGATAA	TTATCTGGGGTTCACCAATCTGCC
1508 CCGTGTCAGTTGCTCCCTGGCACG CGTGCCAGGGAGCAACTGACACGG 1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACGGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTGCCTAT 40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA		1506	CCCTCGGTGTGTTCAAGCCAAATC	GATTTGGCTTGAACACACCGAGGG
1509 TCCGTCTCAGCCGCCTCCCTATCC GGATAGGGAGGCGGCTGAGACGGA 1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTGCCTAT 40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA	35	1507	CCCGCGAACATTTGAACAGCTTAA	TTAAGCTGTTCAAATGTTCGCGGG
1510 ATAGCTGGGTCACCACAGGCGGTC GACCGCCTGTGGTGACCCAGCTAT 1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTGCCTAT 40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA		1508	CCGTGTCAGTTGCTCCCTGGCACG	CGTGCCAGGGAGCAACTGACACGG
1511 ATAGGCAAGCGGTGTAGCACAGCG CGCTGTGCTACACCGCTTGCCTAT 40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA		1509	TCCGTCTCAGCCGCCTCCCTATCC	GGATAGGGAGGCGGCTGAGACGGA
40 1512 TTAGAAGCCGGTCTGGATTTGCGT ACGCAAATCCAGACCGGCTTCTAA		1510	ATAGCTGGGTCACCACAGGCGGTC	GACCGCCTGTGGTGACCCAGCTAT
		1511	ATAGGCAAGCGGTGTAGCACAGCG	CGCTGTGCTACACCGCTTGCCTAT
1513 TGCCGACCTTTACCAGGATCCTCG CGAGGATCCTGGTAAAGGTCGGCA	40	1512	TTAGAAGCCGGTCTGGATTTGCGT	ACGCAAATCCAGACCGGCTTCTAA
		1513	TGCCGACCTTTACCAGGATCCTCG	CGAGGATCCTGGTAAAGGTCGGCA

1514   GCCCACACTATAACCAAGCTGGCA   TGCCAGCTTGGTTATAGTGTGGGC				
1516 CTIGCAGTITATGCTGACCCGTC 1517 TGCCTCCAAATTACTTACGGCCGT ACGGCGGTAAGTAATTTGAGGCCA 1518 CCCGTATGCGGAAGCTATGGGCTA TAGCCCATAGCTTCCGCATACTGAGGCA 1519 TGGTTCAACCCCACACTTCAGTTG 1520 CAATGTGGGGACACTTCAGTTG 1521 TAGCCGCACACATTGAGGTT AACCTTGAAAGTGTGGGGTTGAACGA 1522 GATGGTTCGGCACAAATGGCTGACCG GGGCACCATTTTTTTGCGCACCACACTTTGACGAGTTGAAGTGTGGGGTTGAACGA 1522 GATGGCTCCGACAAATGGCTGACCG GGCCGATATTTGTGCGACCACCACTTGATTG 1524 GGCTTGCTCTCGACATATCGGCC GGCCGATATTTGTCACGACCCCCCGCTG 1525 ATGCGAGGAGGACACCACCGTTCC GGAACGGCGTTCCTCATTTTTGATTGCA 1526 ATGCGAGGAGGACACCACCGTTCC 1526 ATGCGAGGAGGACACCACCGTTCC 1527 ATGCCACCACCGGGAA 1528 ACACATCCAACCACCGGGAA 1529 CAGCCGCAACAGTCGCACCACCGGACC 1529 CAGCCCGAAATGGCCCCCGGGAA 1529 CAGCCCGAAAGGACACCACCGTTCC 1529 CAGCCCGAAAGGACACCACCGTTCC 1529 CAGCCCGAAAGGACACCCCTGTG 1530 AACTGAATCAACACACACGGGAA 1531 ATTTTCGACGATAGGTGGCC 1532 TGAGGGAGAAACCCCAAATCTGCTT 1533 GGCGACTACATCACCACCACGGT 1533 GGCGACTACATCCCCAATTGCTT 1534 CACACACCACCGATGCCCCACGTT 1535 ACAACACACCCCAATTGCTTC 1536 CTGCTGGGCGCGCCACTTTTTT 1537 AACCCTACATCCCCAATTGCTTC 1538 ACACACACCACATGCCCCAATTTCTTT 1539 ACACACACACACGCCCCCGTT 1540 ACTGCTCCCCAATTGCTTC 1551 ACACCACATGACTGCTCCCAATTTCTTT 1552 TAGGGGAGCACCCCCAATTCCTTT 1553 ACACCACATGACTGCTCCCAATTTCTTT 1553 ACAACCACATGCCCCAATTTCCTTT 1554 CACCACCACTGCATGCTTCC 1554 ACACACACTGCCCCAATTTCTTTT 1555 ACACACCACATGCCCCAATTTCTTTT 1556 CTGCTTGGCCGCCCCAACCCTTTTTT 1557 AAGCCTTCTTTTGGCTTCCCCCCT 1558 TACCTCCTCCCAACCTTTTTTCCCCCCCAACCGTCATGCTTCCTCCACCGCCCAACCACCGTCAATCCCCCAATTCCTCCAACCCCACCACCACCGCCCCCCCC		1514	GCCCACACTATAACCAAGCTGGCA	TGCCAGCTTGGTTATAGTGTGGGC
1517 TGCCTCCAAATTACCTTACCGCGT ACGGCGGTAAGTAATTTGGAGGCA 1518 CCCGTATGCGGAAGCTATGGGCTA 1519 TCGTTCAACCCCACACTTCAGTTG ACACTGAAGTGTGGGGTTGACGGG 1519 TCGTTCAACCCCACACTTCAGTTG CAACTGAAGTGTGGGGTTGACGGT 1521 TAGCGTCGCACAATTGGCTCAACTTGCCCCCACACTTG 1521 TAGCGTCGCACAATTGGCTCGCCGCCCCCCACACTTG 1522 GGTGGCTTCGTGACAATATCGGCC GGCCGATATTGTCACGAGCCACC 1523 CAGCGGCGTCCGAAATTGGCTCC GGAACGGAATTTCGACGACCCCT 1524 GGCTTGCTCTGTTTTTTATTGCA 1525 ATGCCAGGAGGACACCACCGTTCC 1526 CCTGTTCACTACGACCCACGGGAA 1527 GTGCCACGGAGTGCGACTTTCC GGAACGGTCGTGTGTACACACCACGGAC 1528 ACGACACCACCGACCGGGAA 1527 GTGCCACGGAGTGCGACTGTTCC 1528 ACGACACCACCGACGGGAA 1527 GTGCCACGGAGTGCGACTGTTCC 1528 ACACACTCCAAGTCTGACACCACGGGAA 1529 CAGCCCGAAAGGAAAGCCTCCGTG 1530 AACTGAATGTAGGTGGCC 1531 ATTTTCGACGATAGGCC 1531 ATTTTCGACGATAGCTCGCTC 1532 CAGCCCGAAAGGAAAGCCTCCGTG 1533 GGCGACTACCTCATCCTTC 1533 GGCGACTACCTCCATTGCTT 1533 GGCGACTACCTCCATTGCTT 1534 GCAGACGGGGCCTTCCATACTTTT 1535 ACAACCACATGACTCCCCAATTGCTT 1536 CTGCTGGGGCCCCTGT 1537 AAGCCTTCTTTGTTCACCACCCAGGGAGCTTTCCCTCCA 1538 GCCGACACCTCCAATTCTTTT 1539 AACCCACATGCCCCAATTCTTTT 1531 ATTTTCGACGTGACACCCCAACTTCCTTCACTCTTC 1534 GCAGACCGCGGCTTCCATACTTTT 1535 ACAACCACATGACTCCCCAATTGCTTT 1536 CTGCTGGGGCGCCACACTACTTCCTTCACACTTCCCCCT 1537 AAGCCTTCTTTGGCTGCACAAGCCTACATTCCGCCCAACACCACAACAACACCAACAAACCACAAGCACAACA		1515	TTGCGCCACTAGTACGGATCTCAA	TTGAGATCCGTACTAGTGGCGCAA
1518   CCCGTATGCGGAAGCTATGGGCTA   TAGCCCATAGCTTCCGCATACGGG     1519   TCGTTCAACCCCACACTTCAGTTG   CAACTGAAGTGTGGGGTTGAACGA     1520   CAATGTGGGGGGACATTTCAAGGTT   AACCTTGAAATGTCCCCCACATTG     1521   TAGCGTCGCACAAATGGCTGACCG   CGGTCAGCCATTTGTGCGACGGCTA     1522   GGTGGCTTCGTGACAAATTGCGCC   CGGTCAGCCATTTGTGCGACGCCACC     1523   CAGCGGCGTCCGAAATTGCGCC   CGGCCGATATTGTCCACGAAGCCACC     1524   GGCTTGCTCTGTTTTTGATTGCA   TGCAACCACAGAGCCACCC     1525   ATGCGAGGAGGACCACCACCGGGAA   TTCCCGTGGGTCGTAGCCAACCCC     1526   CCTGTTCACTACGACCCACGGGAA   TTCCCGTGGGTCGTAGTGAAACACGC     1527   GTGCCACGAGGACGACCGTTC   GGAACGTCGTAGTGAACACGG     1528   ACACATCCAAGGCCACCGGGAA   TTCCCGTGGGTCGTAGTGAACACGG     1529   CAGCCCGAAAGCACGCTCTC   GGCCATCGTCAGACTTGGGTGT     1530   AACTGAATGTAGGTGGCCCCCTGT   ACAGGGGCCCACCTCACATTCAGTT     1531   ATTTTCGACGATAAGCTGGCCGCT   ACAGGGGCCCACCTCACATTCAGTT     1532   TGAGGGAGAACCCCGAAATCTGCTT   ACAGGACGCCACCCTACAATTCAGTT     1533   GGCGACTACATCCCCAATTCCTT   ACAGGACATTTCGGGAAAAT     1532   TGAGGGAGAACCCGAAATCTGCTT   ACAGCACTTTCAGGGAAAAT     1533   GCGACTACATCCCCAATTGCTT   AAAGCAATTTGGGGATGTCCCCCACA     1534   GCAGACGCGGCCTTCCATACTTTT   AAAGCAATTTGGGGATGTTGCTCCCTCA     1535   ACAACCACATGACCGTTAGCTTGCA   ACAGCATTTGGGGGCCCAGCGTTGC     1536   ACACCACATGACGTGTAGCTTGCA   ACAGCATTTGCGGCCCCAGCAG     1537   AAGCCTTCTTTGGCTTGCATACCTTT   CAACAAGCTTTGCGCCCCAGCAG     1538   TACCTGCTGCTGGAGCAAGGCAT   ATGCCTTGCTCCAGGCAGCCAAGAGCTT     1540   AGTTGGCCGCCTGAAGCATTTTTTCCCC   GGTGAGCAAATAAGCGGCCAGCT     1541   TCCAGCGCCGTTATTTTTTCCCC   GGTGAGCAAATAAGCGGCCAGCT     1542   GTGTCCCTCCAGCTAGCCAGTT   AAACTGGCTGCCTGGGGCCCAGCT     1543   GACAACAAGCCAATGGTGAACTCTCA   TGAGGATCTGCAGCGCCCAGCAC     1544   CTACACCGCTGTTGATTTTTCCTCAC   GACGTTCACCGTTGGGGCCCAGCAC     1545   TGGTGCCCTCCAGCAATCTCTCA   TTTCCCGAGTCACCGACCACT     1546   ACATTGCCTTCAGCCAATTTTTTTCCC   GGCGAAAATAACAGCGCCTTTTCTTCTT     1546   ACATTGCCTTCAGCCAATCTCTCCGA   TCTGCCAGGACCACTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTC		1516	CTTGCAGTTTATGCTGACCCGTCC	GGACGGTCAGCATAAACTGCAAG
1519 TCGTTCAACCCCACACTTCAGTTG 1520 CAATGTGGGGGACATTTCAAGGTT ACCTTGAAATGTCCCCCACATTG 1521 TAGCGTCGCACAAATGGCTGACCG CGGTCAGCCATTTGTGCGACGCTA 1522 GGTGGCTTCGTGACAATTGGCTCG GGCCGATATTGTCACGACGCTA 1522 GGTGGCTTCGTGACAATTGGCTCTC GACAGCCAATTTCGGACGCCACC 1523 CAGCGGCGTCCGAAATTGGCTCTC GACAGCCAATTTCGGACGCCGCTA 1524 GGCTTGCTCTGTTTTTGATTGCA TGCAATCAAAAACGAGAGCAAGCC 1525 ATGCGAGGAGGACACGACCGTTCC GACAGCCAATTTCGGACGCCGCTTG 1526 CCTGTTCACTACGACCCACGGGAA TTCCCTGGAGTGCTCCTCCGCAT 1527 GTGCCACGGAGTGCGACTGTTGCT AGCAACAACGCACCGTTGCACCACCTGGAGCACCCACGGACAGCCACCGTTGCACACCACGAGACGACCCACGGACACCTTCACTTCACTACCACCACGAGACGACCCACGGACACTTTCCTTCACTACCACCACGAGCCACCTGTGACACACGACTGCACCCACGTGGACACCACGGACACTTCAAGACCACAGACCCACGGACACCTTCAATTCAGTTCAACACACAC		1517	TGCCTCCAAATTACTTACCGCCGT	ACGGCGGTAAGTAATTTGGAGGCA
1520 CAATGTGGGGGACATTTCAAGGTT 1521 TAGCGTCGCACAAATGGCTGACCG 1522 GGTGGCTTCGTGACCAATTGCGCC CGGTCAGCCATTTGTGCGACGCTA 1523 CAGCGGCGTCCGAAATTGGCTCC GGCCGATTTTGTGCGAAGCCACC 1523 CAGCGGCTCCGAAATTGGCTCC GAGAGCCAATTTCGACGAAGCCACC 1524 GGCTTGCTCTGGTTTTTGATTGCA TGCAATCAAAAACGAGAGCCAGCC 1525 ATGCGAGGAGGACACGACCGTTCC GGAACGCAATTTCGACGAAGCCACCT 1526 CCTGTTCACTACGACCCACGGGAA TCCCGTGGGTCGTAGTGAACAGG 1527 GTGCCACGGAGTGCGACTGTTCC GGAACGATCGAACTTGAATGGTT 1528 ACACATCCAAGTCTGACGATGGCC GGCCATCGTCAGACTTGGATGTGT 1529 CAGCCCGAAAGGAAGCCTCCTGT 1529 CAGCCCGAAAGGAAAGCCTCCGTG 1530 AACTGAATGTAGGAGGACGGCCCACCTTCGTCAGACTTGAGTTGTT 1531 ATTTTCGACGATAAGCTGGCCGTG ACCGGCAGCTTACTTCAGTT 1532 TGAGGGAGAACCCCAAATCTGCTT ACAGGACCCCACCTACATTCAGTT 1533 GGCACTACATCCCCAATTGCTT AAGCAACATTGGGTTGCCCCCAATTGCTTCAGTT 1534 GCAACCCGGGCCTCCCCAATTGCTT AAAGCAATTTGGGTCTGCCCCAATTGCTTCAGTTT 1535 ACAACCACATGACCTTCATCCTTT AAAGCAATTTGGGGACTGCCCCACAGCAGCAGCAATCTGCTCAAACTTTGCTCAAAATTTGGGGACTGCCCCAATTGCTTGC	5	1518	CCCGTATGCGGAAGCTATGGGCTA	TAGCCCATAGCTTCCGCATACGGG
1521 TAGCGTCGCACAAATGGCTGACCG 1522 GGTGGCTTCGTGACAATATCGGCC 1523 CAGCGGCGTCGGACAATTGGCTCTC 1524 GGCTTGCTCTCGTTTTTGATTGCA 1524 GGCTTGCTCTCGTTTTTTGATTGCA 1525 ATGCGAGGAGGACACCACCGTCC 1526 GCCTTCACTAGCACCACCGTTCC 1526 CCTGTTCACTAGCACCCACGGGAA 1527 GTGCCACGGAGGACCGACCGTTCC 1528 CCTGTTCACTAGCACCCACGGGAA 1527 GTGCCACGGAGTGCTCC 1528 ACACATCCAAGTCTGACCATGGCC 1529 CAGCCCGAAAGGACACGACCGTTCC 1529 CAGCCCGAAAGGACCACGTTGCT 1530 AACTGAATGTAGCACCCCTGT 1531 ATTTTCGACGACCCACGGGT 1532 TGAGGGAGAACCCCTCTT 1533 GGCGACTACATCCCCATTGCTT 1534 ACACACCCCAATTGCTC 1535 ACAACCACATGCCCAATTGCTT 1534 GCAGACGGCGCTTCCTCCTCCTCCACATTGCCCCTCACACTTATCGTTGCACACTCCCTCACACTTTCCCTCACACTTCCCCTCACACTTACCCTTCCCCCC		1519	TCGTTCAACCCCACACTTCAGTTG	CAACTGAAGTGTGGGGTTGAACGA
1522 GGTGGCTTCGTGACAATATCGGCC GGCCGATATTGTCACGAAGCCACC 1523 CAGCGGCGTCCGAAATTGGCTCTC GAGAGCCAATTTCGGACGCCGCTG 1524 GGCTTGCTCTCGTTTTTGATTGCA TGCAATCAAAAACGAGAGCAAGCC 1525 ATGCGAAGGAGCACCGTTCC GGAACGGTCGTGTCCTCCTCGCAT 1526 CCTGTTCACTACGACCCACGGGAA TTCCCGTGGGTCGTCCTCCTCGCAT 1527 GTGCCACGGAAGTGCGACTGTTGCT AGCAACAGTCGAACAGG 1527 GTGCCACGGAAGTGCGACTGTTGCT AGCAACAGTCGCACTCGTGGCAC 1528 ACACATCCAAGTCTGACGATGGCC GGCCATCGTCAGACTTGGATGTGT 1529 CAGCCCGAAAGGAAAGCCTCCGTG CACGGAGGCTTTCCTTTC		1520	CAATGTGGGGGACATTTCAAGGTT	AACCTTGAAATGTCCCCCACATTG
1523 CAGCGGCTCCGAAATTGGCTCTC GAGAGCCAATTTCGGACGCCGCTG 1524 GGCTTGCTCTGTTTTTGATTGCA TGCAATCAAAACGAAGCCAAGCC		1521	TAGCGTCGCACAAATGGCTGACCG	CGGTCAGCCATTTGTGCGACGCTA
1524 GGCTTGCTCTGTTTTTGATTGCA 1525 ATGCGAGGAGGACACGCC 1525 ATGCGAGGAGGACACGACCGTTCC 1526 CCTGTTCACTACGACCCACGGGAA 1527 GTGCCACGGAGTGCCACGGGAA 1527 GTGCCACGGAGTGCGACTGTTGCT 1528 ACACATCCAAGTCGACGATGGCC 1529 CAGCCCGAAAGGACTCCGTG 1529 CAGCCCGAAAGGACTCCGTG 1530 AACTGAATGTAGGAGGACCCCTGT 1531 ATTTTCGACGATGAGCCCCTGT 1531 ATTTTCGACGATGAGCCCCTGT 1532 TGAGGGAGACCCCACGTACATTCCCTTACATTCAGTT 1531 ATTTTCGACGATAAGCTGGCCGGT 1533 GGCGACTACATCCCCAATTGCTT 1534 GCAGACGCGGCTTCCATACTTTT 1535 ACACCACATGACGTGGCCCGT 1536 CTGCTGGGCCCCTACATTTTGTTGCGCTTCCTTCA 1537 ACACCACATGACTTGCTT 1538 CTGCTGGGCCCCACTTACTTTT 1539 AACCCACATGACTTGCTT 1539 AACCCACATGACTTGCTCCCATTGCTTGC 1539 GACGCCGCACACAGCATTGCTTGCTTGCAACAGCATTGCGCGCCCACGACGAGAGCCAAAGCATGCCTTATTTGCTCTTCCGCTCAACGCACGAGAGAGCAAGCCAAAGCAAGAAGGCTT 1540 AGTTGGCCGCTAAGATTGCTCCCCATTGCTTGCTCCAGGCAGCAGAGAGCAAAGAAAG		1522	GGTGGCTTCGTGACAATATCGGCC	GGCCGATATTGTCACGAAGCCACC
1525 ATGCGAGGAGGACACGATCC  1526 CCTGTTCACTACGACCCACGGGAA TTCCCGTGGCTCGTGGAT  1527 GTGCCACGGAGTGCGACTGTTGCT AGCAACAGTCGCACTCCGTGGCAC  1528 ACACATCCAAGTCTGACGATGGCC GGCCATCGTCAGACTTGGATGTGT  1529 CAGCCCGAAAGGAAAGCCTCCGTG CACGGAGGCTTTCCTTTC	10	1523	CAGCGGCGTCCGAAATTGGCTCTC	GAGAGCCAATTTCGGACGCCGCTG
1526 CCTGTTCACTACGACCCACGGGAA TTCCCGTGGGTCGTAGTGACACAGG 1527 GTGCCACGAGTGCGACTGTTGCT AGCAACAGTCGCACTCCGTGGCAC 1528 ACACATCCAAGTCTGACGATGGCC GGCCATCGTCAGACTTGGATGTGT 1529 CAGCCCGAAAGGAAGCCTCCGTG CACGGAGGCTTTCCTTTC		1524	GGCTTGCTCTCGTTTTTGATTGCA	TGCAATCAAAAACGAGAGCAAGCC
1527 GTGCCACGGAGTGCGACTGTTGCT AGCAACAGTCGCACTCCGTGGCAC 1528 ACACATCCAAGTCTGACGATGGCC GGCCATCGTCAGACTTGGATGTGT 1529 CAGCCCGAAAGGAAAGCCTCCGTG CACGGAGGCTTTCCTTTC		1525	ATGCGAGGAGGACACGACCGTTCC	GGAACGGTCGTGTCCTCCCCAT
1528 ACACATCCAAGTCTGACGATGGCC GGCCATCGTCAGACTTGGATGTGT 1529 CAGCCCGAAAGGAAAGCCTCCGTG CACGGAGGCTTTCCTTTC		1526	CCTGTTCACTACGACCCACGGGAA	TTCCCGTGGGTCGTAGTGAACAGG
1529 CAGCCCGAAAGGAAAGCCTCCGTG CACGAGGCTTTCCTTTC		1527	GTGCCACGGAGTGCGACTGTTGCT	AGCAACAGTCGCACTCCGTGGCAC
1530 AACTGAATGTAGGTGGGCCCCTGT ACAGGGGCCCACCTACATTCAGTT 1531 ATTTTCGACGATAAGCTGGCCGGT ACCGGCCAGCTTATCGTCGAAAAT 1532 TGAGGGAGAACCCGAAATCTGCTT AAGCAGATTTCGGGTTCTCCCTCA 1533 GGCGACTACATCCCCAATTGCTTG CAAGCAATTGGGGATGATGTCGCC 1534 GCAGACGCGGCCTTCCATACTTTT AAAAGTATGGAAGGCCGCGTCTGC 1535 ACAACCACATGACGTGTAGCTGCA TGCAGCTACACGTCATGTGTTGT 1536 CTGCTGGGCGCGCAAAGCTTGTTG CAACAAGCTTTGCGCCCAGCAGGCGTCTGCTCTCTTTTGGCTTGTTTGCTCCGCT AGCGGAGCAAGCCAAAGAAGGCTTTTTGCTCCGCT AGCGGAGCAAGCCAAAGAAGGCTTTTTGCTCCGCT AGCGGAGCAAGCCAAAGAAGGCTTTTTGGCTTGCTCCGCT AGCGGAGCAAGCCAAAGAAGGCTTTTTGGCCGCCCAGCAGGAGCAAAGCCCAAAGAAGGCTTATTTTGCTCACC GGTGAGCAAAATAAGCGGCCAACTTTGATGCTCCACCGCAGCAGCAGCAAGCCAAAGAAGCCAACTTTGAGCTGCGCCCAGCAGCAGCAAGCCAAAGAACCACCACTCGTAGAGAGCAACAATCAAGCGGCCCAACTTTGAGCTGCGAGAGCAAAATAAGCGGGCCAACTTGAGTGAG	15	1528	ACACATCCAAGTCTGACGATGGCC	GGCCATCGTCAGACTTGGATGTGT
1531 ATTTTCGACGATAAGCTGGCCGGT ACCGGCCAGCTTATCGTCGAAAAT 1532 TGAGGGAGAACCCGAAATCTGCTT AAGCAGATTTCGGTGTTCTCCTCA 1533 GGCGACTACATCCCCCAATTGCTT CAAGCAATTTGGGGATGAGTCGCC 1534 GCAGACGCGGCCTTCCATACTTTT AAAAGTATGGAGGCCGCGTCTGC 1535 ACAACCACATGACGTGTAGCTGCA TGCAGCTACACGTCATGTGGTTGT 1536 CTGCTGGGCGCGCAAAGCTTGTTG CAACAAGCTTTGCGCGCCCAGCAG 1537 AAGCCTTCTTTGGCTTGCTCCGCT AGCGGAGCAAGCCAAAGAAGGCTT 25 1538 TACCTGCTGCCTGGAGCAAGGCAT ATGCCTTGCTCCAGGCAGCAGGTA 1539 GACGCCGCAGCCATGAGTGATGT ACACTCAGTCATGGCTGCGCCCAGCAG 1540 AGTTGGCCGCTTATTTTGCTCACC GGTGAGCAAAATAAGCGGCCAACT 1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGTCGAAGGCGCCAACT 1542 GTGTCCCCTCCAGCTAGCCAGTTT AAACTGGCTAGCTGGAGGGACAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC 1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGCTACCTTGGCTTGTTGTC 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACGCCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGCCTGGACAA 35 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTTGTTTGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAACT 1550 GACAGTCGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1551 AGCTAGCGACGGCCCAACTCACGTA TACGTGAGTTGGCCCCCGACAAAACCTCCCTTGCTTTCTCTCT 1551 AGCTAGCGACGGCCCAACTCCACGTA TACGTGAGTTGGCCCCCGACAAAGCT 1552 CTCCTGTTCGGGGCCGACTTCACGTA TACGTGAGTTGGCCCCCGACAACAGCACAGC		1529	CAGCCCGAAAGGAAAGCCTCCGTG	CACGGAGGCTTTCCTTTCGGGCTG
1532 TGAGGGAGAACCCGAAATCTGCTT AAGCAGATTTCGGGTTCTCCCTCA 1533 GGCGACTACATCCCCCAATTGCTTG CAAGCAATTGGGGATGTAGTCGCC 1534 GCAGACGCGGCCTTCCATACTTTT AAAAGTATGGAAGGCCGCGTCTGC 1535 ACAACCACATGACGTGTAGCTGCA TGCAGCTACACCGTCATGTGGTTGT 1536 CTGCTGGGCGCGCAAAGCTTGTTG CAACAAGCTTTGCGCGCCCAGCAG 1537 AAGCCTTCTTTGGCTTGCTCCGCT AGCGGAGCAAGCCAAGAAGAGGCTT 1538 TACCTGCTGCTGGAGCAAGGCAT ATGCCTTGCTCCAGGCAGCAGGTA 1539 GACGCCGCAGCCATGAGTGAGTGT ACACTCAGTCATGGCTGCGGCGTC 1540 AGTTGGCCGCTTATTTTGCTCACC GGTGAGCAAAATAAGCGGCCAACT 1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGTCGAAGGCGCCTGG 1542 GTGTCCCCTCCAGCTAGCCAGTT AAACTGGCTAGCTGGAGGAGCAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTTC 1544 CTACACCGCTCGTGACCAGGTT AAACTGGCTAGCTTGGCTTG		1530	AACTGAATGTAGGTGGGCCCCTGT	ACAGGGGCCCACCTACATTCAGTT
20 1533 GGCGACTACATCCCCAATTGCTTG CAAGCAATTGGGGATGTAGTCGCC 1534 GCAGACGCGGCCTTCCATACTTTT AAAAGTATGGAAGGCCGCGTCTGC 1535 ACAACCACATGACGTGTAGCTGCA TGCAGCTACACGTCATGTGGTTGT 1536 CTGCTGGGCGCGCAAAGCTTGTTG CAACAAGCTTTGCGCGCCCAGCAG 1537 AAGCCTTCTTTGGCTTGCTCCGCT AGCGGAGCAAGCCAAAGAAGGCTT 25 1538 TACCTGCTGCAGCAAGGCAT ATGCCTTGCTCCAGGCAGCAGGTA 1539 GACGCCGCAGCCATGAGTGAGTGT ACACTCAGTCATGGCTGCGGCGTC 1540 AGTTGGCCGCTTATTTTGCTCCACC GGTGAGCAAAATAAGCGGCCAACT 1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGTCGAAGGCGCCTGG 1542 GTGTCCCCTCCAGCTAGCCAGTT AAACTGGCTAGCTGGAGGAACAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTTC 1544 CTACACCGCTCGTGACCAGGTT AAACTGGCTAGCTTGGCTTG		1531	ATTTTCGACGATAAGCTGGCCGGT	ACCGCCAGCTTATCGTCGAAAAT
1534 GCAGACGCGGCCTTCCATACTTTT AAAAGTATGGAAGGCCGCGTCTGC 1535 ACAACCACATGACGTGTAGCTGCA TGCAGCTACACGTCATGTGGTTGT 1536 CTGCTGGGCGCGCAAAGCTTGTTG CAACAAGCTTTGCGGCCCAGCAG 1537 AAGCCTTCTTTGGCTTGCTCCGCT AGCGGAGCAAGCCAAAGAAGGCTT 25 1538 TACCTGCTGCAGGAGAAGGCAT ATGCCTTGCTCCAGGCAGCAGGTA 1539 GACGCCGCAGCCATGAGTGAGTGT ACACTCAGTCATGGCTGCGGCGTC 1540 AGTTGGCCGCTTATTTTGCTCACC GGTGAGCAAAATAAGCGGCCAACT 1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGCAAGAGGCGCCAACT 1542 GTGTCCCCTCCAGCTAGCCAGTTT AAACTGGCTGGAGGGGACAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC 1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGTCACCTTGGCTTGTTGTC 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 1548 ACGAGAGATAGCGGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACACACGCTTGT 1550 GACAGTCGGCGAGCTCTT AAGAGCTCGCCTGACCACACACGCTTCCCGT 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCCCGACCACACGCTTCCCGT 1552 CTCCTGTTCGGGGGCCCACACTCACGTA TACGTGAGTTGGCCCCGAACAAGGAGGAGCCCCCGAACAAGGAGGAGCCCCCGAACAGGAGG		1532	TGAGGGAGAACCCGAAATCTGCTT	AAGCAGATTTCGGGTTCTCCCTCA
1535 ACAACCACATGACGTGTAGCTGCA TGCAGCTACACGTCATGTGGTTGT 1536 CTGCTGGGCGCGCAAAGCTTGTTG CAACAAGCTTTGCGCGCCCAGCAG 1537 AAGCCTTCTTTGGCTTGCTCCGCT AGCGGAGCAAGCCAAAGAAGGCTT 1538 TACCTGCTGCCTGGAGCAAGGCAT ATGCCTTGCTCCAGGCAGCAGGTA 1539 GACGCCGCAGCCATGAGTGAGTT ACACTCAGTCATGGCTGCGGCGTC 1540 AGTTGGCCGCTTATTTTGCTCACC GGTGAGCAAAATAAGCGGCCAACT 1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGCGAAGGCGCCTGG 1542 GTGTCCCCTCCAGCTAGCCAGTTT AAACTGGCTAGCTGGAGGGGACAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC 1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGTCACCTTGGTTGTC 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATAACAATGGCTGGACAA 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGCGTGCAGTTTGTTTTTTTTTTTTTTTTTTTT	20	1533	GGCGACTACATCCCCAATTGCTTG	CAAGCAATTGGGGATGTAGTCGCC
1536 CTGCTGGGCGCGCAAAGCTTGTTG CAACAAGCTTTGCGCGCCCCAGCAG 1537 AAGCCTTCTTTGGCTTGCTCCGCT AGCGGAGCAAGCCAAAGAAGGCTT 25 1538 TACCTGCTGCAGCAAGGCAT ATGCCTTGCTCCAGGCAGCAGGTA 1539 GACGCCGCAGCCATGAGTGAGTGT ACACTCAGTCATGGCTGCGGCGTC 1540 AGTTGGCCGCTTATTTTGCTCACC GGTGAGCAAAATAAGCGGCCAACT 1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGCGAAGGCGCCTGG 1542 GTGTCCCCTCCAGCTAGCCAGTTT AAACTGGCTAGCTGGAGGGGACAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC 1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGTCACCTTGGCTTGTTGTC 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 35 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTTACTCTCCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACCACACGCT 1550 GACAGTCGGCGTGCAGTTTGTT 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGCCGACTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCGAGTGCCACATAG CTATGTGGCACTGCCTGACGACAACAGGAG		1534	GCAGACGCGGCCTTCCATACTTTT	AAAAGTATGGAAGGCCGCGTCTGC
1537 AAGCCTTCTTTGGCTTGCTCCGCT AGCGGAGCAAGCCAAAGAAGGCTT 1538 TACCTGCTGCCTGGAGCAAGGCAT ATGCCTTGCTCCAGGCAGCAGGTA 1539 GACGCCGCAGCCATGAGTGAGTGT ACACTCAGTCATGGCTGCGGCGTC 1540 AGTTGGCCGCTTATTTTGCTCACC GGTGAGCAAAATAAGCGGCCAACT 1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGTCGAAGGCGCCTGG 1542 GTGTCCCCTCCAGCTAGCCAGTTT AAACTGGCTAGCTGGAGGGGACAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC 1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGTCACGAGCGGTGTAG 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 35 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAGCT 1550 GACAGTCGGCGTGCAGTTTGTTT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGGCCCAACTCACGTA TACGTGAGTTGGCCCTGACCACCTGTC 1552 CTCCTGTTCGGGGCCCTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCCTGACGACAACGCA		1535	ACAACCACATGACGTGTAGCTGCA	TGCAGCTACACGTCATGTGGTTGT
1538 TACCTGCTGCAGCAAGGCAT ATGCCTTGCTCCAGGCAGCAGGTA 1539 GACGCCGCAGCCATGAGTGAGTGT ACACTCAGTCATGCTGCGCGTC 1540 AGTTGGCCGCTTATTTTGCTCACC GGTGAGCAAAATAAGCGGCCAACT 1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGTCGAAGGCGCCTGG 1542 GTGTCCCCTCCAGCTAGCCAGTTT AAACTGGCTAGCTGGAGGGGACAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC 1544 CTACACCGCTCGTGACTCGGCAAA TITGCCGAGTCACCAGAGCGGTGTAG 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 35 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCCAACAGGAG 40 1553 ACTGACCGACGACGTGCCACATAG CTATGTGGCACTGCGTCAGTT		1536	CTGCTGGGCGCGCAAAGCTTGTTG	CAACAAGCTTTGCGCGCCCAGCAG
1539 GACGCCGCAGCCATGAGTGAGTGT ACACTCAGTCATGGCTGCGGCGTC 1540 AGTTGGCCGCTTATTTTGCTCACC GGTGAGCAAAATAAGCGGCCAACT 1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGTCGAAGGCGCCTGG 1542 GTGTCCCCTCCAGCTAGCCAGTTT AAACTGGCTAGCTGGAGGGGACAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC 1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGTCACGAGCGGTGTAG 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 35 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGCCGACTGTC 1552 CTCCTGTTCGGGGCCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCAGTT		1537	AAGCCTTCTTTGGCTTGCTCCGCT	AGCGGAGCAAGCCAAAGAAGGCTT
1540 AGTTGGCCGCTTATTTTGCTCACC GGTGAGCAAAATAAGCGGCCAACT 1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGTCGAAGGCGCCTGG 1542 GTGTCCCCTCCAGCTAGCCAGTTT AAACTGGCTAGCTGGAGGGGACAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC 1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGTCACGAGCGGTGTAG 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCAGT	25	1538	TACCTGCTGCCTGGAGCAAGGCAT	ATGCCTTGCTCCAGGCAGCAGGTA
1541 CCAGGCGCCTTCGACAGATCCTCA TGAGGATCTGCGAAGGCGCCTGG 1542 GTGTCCCCTCCAGCTAGCCAGTTT AAACTGGCTAGCTGGAGGGGACAC 1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC 1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGTCACGAGCGGTGTAG 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCCAGTGCCACATAG CTATGTGGCACTCGGTCAGT		1539	GACGCCGCAGCCATGAGTGAGTGT	ACACTCAGTCATGGCTGCGGCGTC
1542 GTGTCCCTCCAGCTAGCCAGTTT AAACTGGCTAGCTGGAGGGGACAC  1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC  1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGTCACGAGCGGTGTAG  1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA  1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT  1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA  1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT  1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAGCT  1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC  1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT  1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG  40 1553 ACTGACCGACGCCACTTACTAGCT CTATGTGGCACTGCGTCAGTT		1540	AGTTGGCCGCTTATTTTGCTCACC	GGTGAGCAAAATAAGCGGCCAACT
1543 GACAACAAGCCAAGGTGACACGTC GACGTGTCACCTTGGCTTGTTGTC 1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGTCACGAGCGGTGTAG 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCCAGTGCCACATAG CTATGTGGCACTGCGTCAGT		1541	CCAGGCGCCTTCGACAGATCCTCA	TGAGGATCTGTCGAAGGCGCCTGG
1544 CTACACCGCTCGTGACTCGGCAAA TTTGCCGAGTCACGAGCGGTGTAG 1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCCAGTGCCACATAG CTATGTGGCACTGCGTCAGCT		1542	GTGTCCCCTCCAGCTAGCCAGTTT	AAACTGGCTAGCTGGAGGGGACAC
1545 TGGTGCCATCAAAGCACGTTGTAC GTACAACGTGCTTTGATGGCACCA 1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCAGTT	30	1543		GACGTGTCACCTTGGCTTGTTGTC
1546 ACAATGCGTGTTGCGAAACGCATA TATGCGTTTCGCAACACGCATTGT 1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA 1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCAGT		1544	CTACACCGCTCGTGACTCGGCAAA	TTTGCCGAGTCACGAGCGGTGTAG
1547 TTGTCCAGCCATTGTATTTTGCGC GCGCAAAATACAATGGCTGGACAA  1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT  1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT  1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC  1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT  1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG  40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCAGT		1545	TGGTGCCATCAAAGCACGTTGTAC	GTACAACGTGCTTTGATGGCACCA
1548 ACGAGAGATAGCGGACTCCTCCGA TCGGAGGAGTCCGCTATCTCTCGT 1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCAGT		1546	ACAATGCGTGTTGCGAAACGCATA	TATGCGTTTCGCAACACGCATTGT
1549 AGCTTTGTCGTCAGGCGAGCTCTT AAGAGCTCGCCTGACGACAAAGCT 1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCAGT		1547	TTGTCCAGCCATTGTATTTTGCGC	GCGCAAAATACAATGGCTGGACAA
1550 GACAGTCGGCGTGCAGTTTGTTGT ACAACAAACTGCACGCCGACTGTC 1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCGGTCAGT	35	1548	ACGAGAGATAGCGGACTCCTCCGA	TCGGAGGAGTCCGCTATCTCTCGT
1551 AGCTAGCGACGGCCAACTCACGTA TACGTGAGTTGGCCGTCGCTAGCT 1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCAGT		1549	AGCTTTGTCGTCAGGCGAGCTCTT	AAGAGCTCGCCTGACGACAAAGCT
1552 CTCCTGTTCGGGGCCGTTACTGGT ACCAGTAACGGCCCCGAACAGGAG 40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCAGT		1550	GACAGTCGGCGTGCAGTTTGTTGT	ACAACAAACTGCACGCCGACTGTC
40 1553 ACTGACCGACGCAGTGCCACATAG CTATGTGGCACTGCGTCAGT		1551	AGCTAGCGACGGCCAACTCACGTA	TACGTGAGTTGGCCGTCGCTAGCT
		1552	CTCCTGTTCGGGGCCGTTACTGGT	ACCAGTAACGGCCCCGAACAGGAG
1554 AGGTAGGGTCTGGTTTGACTCGCA TGCGAGTCAAACCAGACCCTACCT	40	1553	ACTGACCGACGCAGTGCCACATAG	CTATGTGGCACTGCGTCGGTCAGT
		1554	AGGTAGGGTCTGGTTTGACTCGCA	TGCGAGTCAAACCAGACCCTACCT

ſ	1555	CCTCCATTTTAGCGCGTTGCCAAT	ATTGGCAACGCGCTAAAATGGAGG
	1556	TTCTTAGGATCCGCGCACTCTTGG	CCAAGAGTGCGCGGATCCTAAGAA
	1557	GTCGAAGGTGTCTACCGTGCGCAG	CTGCGCACGGTAGACACCTTCGAC
ļ	1558	GTCACTCGGCGGCCCAATCACTCG	CGAGTGATTGGGCCGCCGAGTGAC
5	1559	TCTCGGTCACCCGTCTTGACCCTT	AAGGGTCAAGACGGGTGACCGAGA
	1560	GCCCTCGACGAACTCATCCTGAAC	GTTCAGGATGAGTTCGTCGAGGGC
	1561	TCCGGCGTACTCTGACACGGCGAT	ATCGCCGTGTCAGAGTACGCCGGA
	1562	AGCCAAATGCTTTCGTGGTTCGGA	TCCGAACCACGAAAGCATTTGGCT
	1563	ACTCCACGCCGCATGTTGCTGTGA	TCACAGCAACATGCGGCGTGGAGT
10	1564	GCTTCGAGTCGGTGGCATCTGTAT	ATACAGATGCCACCGACTCGAAGC
	1565	GGTCTTGGGCCATCGACTTGCTGC	GCAGCAAGTCGATGGCCCAAGACC
	1566	GGTATCGGACTGCACTAAGGGCAA	TTGCCCTTAGTGCAGTCCGATACC
	1567	AGCCCATGCGTTCCGGATGATTTG	CAAATCATCCGGAACGCATGGGCT
	1568	GCCAGGGTTAAAAGTGATGGGCTC	GAGCCCATCACTTTTAACCCTGGC
15	1569	GACGACGTGCTGGCTACGAAGGGG	CCCCTTCGTAGCCAGCACGTCGTC
	1570	TCCTATTGACCGTGCATCGTGATC	GATCACGATGCACGGTCAATAGGA
	1571	ACCCGCCTCGACTCCACAACTAAA	TTTAGTTGTGGAGTCGAGGCGGGT
	1572	GATGTGGATCACGACCTGCCAGTA	TACTGGCAGGTCGTGATCCACATC
	1573	GTGCCATTGCCACCCATAATGCGT	ACGCATTATGGGTGGCAATGGCAC
20	1574	TTAGCCTGTGCACCCAGTCAGGAG	CTCCTGACTGGGTGCACAGGCTAA
:	1575	TCCGATGGGAGAGGCTGATCTCAC	GTGAGATCAGCCTCTCCCATCGGA
	1576	CACTACTGAAGTGGCCTGGCGCTG	CAGCGCCAGGCCACTTCAGTAGTG
	1577	TGCGGCCATAGCGATGTGATAGAT	ATCTATCACATCGCTATGGCCGCA
	1578	GATTGCGCTTAACGGAGATGCACG	CGTGCATCTCCGTTAAGCGCAATC
25	1579	TCACGTTTGACAACGCCAAGCATT	AATGCTTGGCGTTGTCAAACGTGA
	1580	GCATTGTTTGCTAAAGGCGGCATT	AATGCCGCCTTTAGCAAACAATGC
	1581	AGTCGCTCTACGCGTGCAACGCTG	CAGCGTTGCACGCGTAGAGCGACT
	1582	TAGCTCCATGGAGGTCCGAAAGGG	CCCTTTCGGACCTCCATGGAGCTA
	1583	GACCGGTTGGACCTCACTGGCTTC	GAAGCCAGTGAGGTCCAACCGGTC
30	1584	AAGCCGGACAGTCAATGTGCGTAT	ATACGCACATTGACTGTCCGGCTT
	1585	TGCCTCGCTGAGTTCTTCACCGTG	CACGGTGAAGAACTCAGCGAGGCA
	1586	TCGTAGACCTTGCTTTTGGGCTCA	TGAGCCCAAAAGCAAGGTCTACGA
	· 1587	ACCGCTATGCGCCCTACAAAGCAT	ATGCTTTGTAGGGCGCATAGCGGT
	1588	TAGCGTCACCGTAGCTTGGGGCAG	CTGCCCAAGCTACGGTGACGCTA
35	1589	CTCTCAGCAACTGATGGCACCGGA	TCCGGTGCCATCAGTTGCTGAGAG
	1590	AAAGGAAATGTGGTGCTGGTCGGC	GCCGACCAGCACCACATTTCCTTT
	1591	CCGGCTTAGATGGAGAACAAGTGC	GCACTTGTTCTCCATCTAAGCCGG
	1592	AAGTAAATCGCCTCGCCCAAACCG	CGGTTTGGGCGAGGCGATTTACTT
	1593	TGGGCTGTTCAGCCTACCGGACGT	ACGTCCGGTAGGCTGAACAGCCCA
40	1594	GTTTCGGTTCAGCCATGGGCCTAC	GTAGGCCCATGGCTGAACCGAAAC
	1595	GGCCAACATTTCTAGGGGAGTGCC	GGCACTCCCCTAGAAATGTTGGCC

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	1596	TTCTTCGTTGGGATTGTCCTCACC	GGTGAGGACAATCCCAACGAAGAA
	1597	TGCACATTGGGGTACGGATCTGAC	GTCAGATCCGTACCCCAATGTGCA
	1598	GGCAGTTAGACGGCAAACTGCAGG	CCTGCAGTTTGCCGTCTAACTGCC
i	1599	CGCGTCAGGCTATGAATGGCTCTT	AAGAGCCATTCATAGCCTGACGCG
5	1600	GCTGAATGCAAACCTCGGAGCCAT	ATGGCTCCGAGGTTTGCATTCAGC
	1601	CGCTCTGGCGGATTCATTGTTTTC	GAAAACAATGAATCCGCCAGAGCG
	1602	TTTTCAATCAACCCTCCGGACGTA	TACGTCCGGAGGGTTGATTGAAAA
	1603	GTGGTGGAGTCTGAAGCACGACAG	CTGTCGTGCTTCAGACTCCACCAC
	1604	AAACAGGTCCGGATGATGTCTGGA	TCCAGACATCATCCGGACCTGTTT
10	1605	GTACCGCGTGTACGCCACCGTTAG	CTAACGGTGGCGTACACGCGGTAC
	1606	TCCAACCTACATTTGCGGAAGGAA	TTCCTTCCGCAAATGTAGGTTGGA
	1607	GACGTACCGTCGTCCCGTGAGTTG	CAACTCACGGGACGACGGTACGTC
	1608	GGCAATCCTACAACCGACGCTGAT	ATCAGCGTCGGTTGTAGGATTGCC
	1609	GGCGGCTGCAGGGTCTACATCGAG	CTCGATGTAGACCCTGCAGCCGCC
15	1610	ATACTACGCTGCAGCTGCGCGGC	GCCCGCGCAGCTGCAGCGTAGTAT
	1611	GGATCGCAATCCCTCCGATGACGA	TCGTCATCGGAGGGATTGCGATCC
	1612	TGGCCTTGCACGGGAGCCGAATCT	AGATTCGGCTCCCGTGCAAGGCCA
	1613	AGGTGCCGACGAAACGACGAATAT	ATATTCGTCGTTTCGTCGGCACCT
	<b>1</b> 614	GCTGTTTCACCGTCGTCGTTGTTG	CAACAACGACGACGGTGAAACAGC
20	1615	CGGTCCCAATGTTACAACCCAGAC	GTCTGGGTTGTAACATTGGGACCG
	1616	GCAATTCCAGCCACTTTTGACCAA	TTGGTCAAAAGTGGCTGGAATTGC
	1617	ACGGCGAAAGCTCGGTACGGATA	TATCCGTACCGAGCTTTCGCCCGT
	1618	CGACCGACTTTTGCTTTCGAGTG	CACTCGAAAGCAAAAGTCGGGTCG
	1619	AATTCAGTGTTTGCGTCATGGTCG	CGACCATGACGCAAACACTGAATT
25	1620	CCTGTATGAGGTTCTGGGTCGGCT	AGCCGACCCAGAACCTCATACAGG
	1621	TGGCATACTTGGTGCAAACGCCGT	ACGCCTFTGCACCAAGTATGCCA
	1622	TCGCCAGTACAGAAACATGCGGGC	GCCCGCATGTTTCTGTACTGGCGA
	1623	CCCGCTGTTGCTCTCATCGTGGAG	CTCCACGATGAGAGCAACAGCGGG
	1624	GCCACAATCTGACCCTGGGAATCA	TGATTCCCAGGGTCAGATTGTGGC
30	1625	GCTCAGTCTCGGAAGTTTCGGCTA	TAGCCGAAACTTCCGAGACTGAGC
	1626	CTTCACGGGCCAACGACGGTCGAG	CTCGACCGTCGTTGGCCCGTGAAG
	1627	CGACAGTTCCGTCCGTCTTGAGGA	TCCTCAAGACGGACGGAACTGTCG
	1628	ACGGAGACGCAGTCGAAACGTCCC	GGGACGTTTCGACTGCGTCTCCGT
	1629	CATGCATCCGATTAAGGGGATCAC	GTGATCCCCTTAATCGGATGCATG
35	1630	ATTGCGGGAGTCCCTAGCTTTCTG	CAGAAAGCTAGGGACTCCCGCAAT
	1631	GTGTGGAAGATGCAATTGGAACGG	CCGTTCCAATTGCATCTTCCACAC
	1632	ATACAACGGTAGGTGACAGGGGCG	CGCCCTGTCACCTACCGTTGTAT
	1633	GCCGTGGGAGTAAGGGTACAAAGG	CCTTTGTACCCTTACTCCCACGGC
	1634	GCACGTAGGTCGGCTACTACTCGG	CCGAGTAGTAGCCGACCTACGTGC
40	1635	ACTGTGATCTCTTGGGCAAAGGGC	GCCCTTTGCCCAAGAGATCACAGT
	1636	CATGCCTGAACAATCTCGCATCCC	GGGATGCGAGATTGTTCAGGCATG
	<del></del>	·	

1638 CTTTCGATACCATCGTTGGCGATC 1639 CCCGGAGGTGAGGCATTGATATG 1639 CCCGGAGGTGAGGCATTGATATG 1639 CCCGGAGGTGAGGCATTGATATG 1640 CTCATTCAGCTAAAAGCGGCTGGA 1641 GAAATGCCCTGGGGACTTTTTGCC GGCAAAAAGTCCCCAGGGCATTGATATG 1642 TTTGCCTTCACAACAGACGCAGCA 1643 AAATCCCAAGAGCGCTGGA TGCTGCCTGTGTTGAAGGCAAA 1643 AAATCCCAAGAGCGTCGGGGCTTA ATACGCCCCGACGTCTTGGAATGAG 1644 CAACGGGCGGTAGCTAAAACCGTAA TTACGGTTTAGCTGAAGGCAAA 1645 GGCCAACGACAATCCAGCCAA TGCTGAGATTTACCTACCGCCCGTTG 1646 GACATCACGCAAAATCTCAGCGCA TGCGTGAGATTTTGCGTGATGTC 1647 ACCTTCCGTCCACAACCGTAATTTAGCTTACGTCACGCCCGTTG 1648 GCCCAACGACAAATCTCAGCGCA TGCGGAGATTTTGCGTGATGTC 1649 GAAACGAGTCTCTCGACAACCGTAATT 1649 GAAACGAGTCTCCGCCCCTAGA TCAGGGCGAAGACCTGTTTC 1650 CGGGACAGAAACCATCACGCCA TCCGACGAAGACCTATGACC 1651 TGACCGCTCGATACCAGGAGGGTG 1652 CTGGCAATAAAGACCTTCCGACCA TGGTCGAAGAGACTCTTTCCTCCCCC 1653 TGCGCGACGTAACCAGGAGGGTG 1654 GTTGGTTGTGGTGATTA TAATCACCAACATGACGTCGCGCA 1655 TGTGGGTTCGGAACACACCCGCT AGCGGTGTATCAGCGGCGA 1655 TGTGGGTTCGGAACACACCCGCT AGCGGTGTATCAGCGGCGCA 1655 TGTGGGTTCGGAACACACCCGCT AGCGGTGTATTCACCAACCAAC 1655 TGTGGGTTCGGAACACACCCGCT AGCGGGTGTTTCCCACAACCAAC 1655 TGTGGGTTCGGAACACACCGCACT AGCCGGTGTTTTCCCACAACCAAC 1655 TGTGGGTTCGGAACACACGGAAGT ACTCGTGTTTCCCACAACCAAC 1655 TGTGGGTTCGGAACACACACGGAAGT ACTCGTGTTTCCCACAACCAAC 1655 TGTGGGTTCGGAACCCACCCACA AGCCGGTTATTCCCGTTTTTTCCC 1657 TGGTGCGGAATCCCACGCACT AGCCGGTCAATTCCCCGCCCCA 1658 AACCAACAGGCTGACCCAGCATTACCCAACCACAC AGCCGCGTTTTTTCC 1657 TGGTGCGGAGTCCCTCTATTGGC CCCCAATAGAGGGCACTTTCCCCACACCACCACCACCACCACCACCACCACCA				
1639   CCCGGAGGTGAGGCATTGAATATG		1637	GAGCCTGGCTCCACAGCTGTGCTC	GAGCACAGCTGTGGAGCCAGGCTC
1640   CTCATTCAGCTAAAAGCGGCTGGA   TCCAGCCGCTTTTAGCTGAATGAG     1641		1638	CTTTCGATACCATCGTTGGCGATC	GATCGCCAACGATGGTATCGAAAG
1611   GAAATGCCCTGGGGACTTTTTGCC   GGCAAAAAGTCCCCAGGGCATTTC   1642   TTTGCCTTCACAACAGACGCAGCA   TGCTGCGTCTGTTGAAGGCAAA   1643   AAATCCCAAGACGTCGGGGCGTAT   ATACGCCCCGACCTCTTGGGATTT   1644   CAACGGCCGGTAGCTAAACCGTAA   TTACGGTTTAGCTACCGCCCGTTC   1645   GGCCAACGACAATGCGAAACCTTC   GAAGGTTTGGCATTGTGTTGGTGGCC   1646   GACATCACGCAAAACCTTC   GAAGGTTTGGCATTGTGTGTGTGGCC   1647   ACGTTCCGTCCACAACCGTATGTT   AACATACGGTTAGGACAGATTTCCGTAGGCCCGT   1648   GCTCATAGGTCTTCCGTAGCCCGT   ACGGGCTACGGAAGACCTATGAGC   1649   GAAACGAGTCTCTCGCGCCCTTAGA   TCTAGGGCGAAGACCTATGAGC   1650   CGGGACAGAAGCAAGTTACATGGC   CCGATGTAACTTGGTCCGCCCTAGA   TCTAGGCCGAGAGACCTATGAGC   1651   TGACCGCTGGATACCAGGAGGGTC   CACCCTCCTGGTATCGAGCGGTCA   1652   CTGGCAATAAAGACCTTCCGACCA   TGGTCGGAAGGCTCTTTTTCCCGC   CGGGTCGTATCCAGACGGTCA   1653   TGCGCGACGTACTGGTGGTGATTA   TAATCACCAACATGACGTCGCGCA   1655   TTGTGGGTTCGGAACACACCCGCT   ACGGGTTGTTTCCCACACCCACA   1655   TTGTGGGTTCGGAACACACCCGCT   ACGCGGTTGTTCCCACACCCACA   1655   TTGTGGGTTCGGAACACACCCGCT   ACTCGGTTGTTTCCCACACCCACA   1655   TTGTGGGTTCGGAAACACAGGAAGT   ACTTCCTGTGTTTCCCACACCCACA   1656   GGAAAAAACGGCAATTAGCCGAGT   ACTCGGCTGAACCCACAC   1656   GAAAAAACGGCAATTAGCCGAGT   ACTCGGCTGCAGCCCACAC   1656   AACCAACAGGCTGCAGCCCAAACC   ACTCGGCTGCAGCCTGTTTTTCC   1657   TGGTGCGGAACCCCTCTATTGGG   CCCAATAGAGGGCACTCCGCACCA   1658   AACCAACAGGCTGCAGCCCAAACC   ACTCTGGCTGCAGCCTGTTTTTCC   1659   AAACAGATCCATCTGCACCCAGC   ACTCTGGCTGCAGCCTGTTTTTCC   1660   GGAATACCGCGGGGATTATGGCTT   AAGCCATAATCCCCGCGGGTATTCC   1661   TACTGTTCGGGGCAACCGTTTCC   AGGACGATTACCCGCCAGG   1666   ACGGTACCAAACCGTCACT   AGTCTGGGTCAGCCTGTTTTCC   1662   GATCTCTGGTGGAGCCCAATATC   GATATTGGCTCCACAGATGAACCTACTGCTGCACCCAATATC   GATATTGGCTCACCAGATGAACCTACTGCTGCACCCAATATC   GATATTGGCTCACCAGATGAACCTACTGCTGCTGCACCCAATATC   AGGCCATAATCCTGCAGACCAATACCTACTGCGCCAATATCCTGCACCCAATATCCTGCACCCAATATCCTGCACCCAATATCCTGCACCCAATATCCTGCACCCAATATCCTGCACCCAATATCCTGCACCCAATATCCTGCACCCAATATCCTGCACCCAATATCCTGCACCCAATATCCTGCACCAATATTCCTGACTTCTTACCTGACTTCTCTTCCTGGGCTGCAACACAACCAAC		1639	CCCGGAGGTGAGGCATTGAATATG	CATATTCAATGCCTCACCTCCGGG
1642 TITIGCCTTCACAACAGACGCAGCA 1643 AAATCCCAAGACGTCGGGGCGTAT ATACGCCCCGACGTCTTGGAATT 1644 CAACGGGCGGTAACCTAAACCGTAA 1644 CAACGGGCGGTACTAAACCGTAA 1645 GGCCAACAACATGCGAAACCTTC 1646 GACATCACGCAACAATCTCAGCGCA TGCGCTGAGATTTTCGGTTGTGTAGCC 1647 ACGTTCCGTCCACAACCCTATGTT AACATACGGTTTGCGTTTGCGTTGTGT 1648 GCCATAGGTCTTCCGTAGCCCAT TGCGCTGAAGACCTTTCGGAAGACCTTCCGAACACTTCCGAACACTTGTGTT AACATACGGTTGGAAGACCTATGAGC 1649 GAAACGAGTCTTCCGTAGCCCGT ACGGGCTACGGAAGACCTATGAGC 1650 CGGGACAGAAGACAACTTACATCCG 1651 TGACCGCTCGATACCAGGAGGGGTG CACCCTCCTGGTATCGACGACGAAGACCTATGAGC 1652 CTGGCAATAAAGACCTTCCGACCA TGGTCGAACTTGCTCTTTTCCCAG 1653 TGCGCGACGTCATGTTGGTGTATA TAATCACCAACATGACGTCGCCCA 1654 GTTGGTTTGTGGGAACAACACCCCGCT AGCGGGTGATTTCCCACAACCAAC 1655 TGTGGGTTCGGAACACACCCGCT ACGGGGTGTGTTTCCCACAACCAAC 1655 TGTGGGTTCGGAACACACCCGCT ACGGGGTGTGTTTCCCACAACCAACA 1656 GGAAAAACGGCAATTAGCCGAGT ACTCGGTAATTTCCGATTTTTCC 1657 TGGTGCGGAACCACACCCGCT ACCGGCTAATTGCGCTTTTTTTCC 1657 TGGTGCGGAACCACCACACT ACTCTGGTTTCCGACCCACA 1658 AACCAACAGGCTGCAGCCCAAGT ACTCTGGCTGCAGCCTTTGGTT 1658 AACCAACAGGCTGCAGCCCAAGT ACTCTGGCTGCAGCCTTTGGTT 1659 AAACAGATCCTGCACGCCAAGT ACTCTGGCTGCAGCCTTTGGTT 1660 GGAATACCGCGGCGATTATGCCTCCAA 1661 TACTGTTCGGGCACACCCCAAGC AGTCATGACGGTCAGCCGCACACT 1662 GATCTCCGTGGAGCCCAAGCT AGTCTGGAGGCTTTCCCACAACCACACT 1663 GGCATACCACCGCCAAGC AGTCATGACGGTCCCACACAGCACT AGTCTGGAGCCCTGCACCACACT 1664 ATCTGGGACACCTTCTACCGC AGGACATTTTCCCGCAGACACTATTCCCGCGCGGTATTTCC 1666 ACGGTACCAACCGTCACT AGTCTGCACCCACACTATTCCCGCGAACCACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACCACACTACCTGCACACACTACCTGCACCACACTACCTGCACCACACACTACCTGCACACACTACCTGCACACACTACCTGCACACACTACCTGCACACACTACCTGCACACACTACCTGCACACACTACCTGCACACACTACCTGCACACACA		1640	CTCATTCAGCTAAAAGCGGCTGGA	TCCAGCCGCTTTTAGCTGAATGAG
1643 AAATCCCAAGACGTCGGGGCGTAT ATACGCCCCGACGTCTTGGGATTT 1644 CAACGGGCGGTAGCTAAACCGTAA TTACGGTTTAGCTACCGCCCGTTG 1645 GGCCAACGACAAATCCTAGCGCAA TTACGGTTTAGCTACCGCCCCGTTG 1646 GACATCACGCAAATCCAGCGCA TGCGCTGAGTTTTGCGTGATGTC 1647 ACGTTCCGTCACAAACCTCAGCCA TGCGCTGAGTTTTGCGTGATGTC 1648 GCTCATAGGTCTTCCGTAGCCCGT ACGGGCTACGGAAGACCTATGAGC 1649 GAAACGAGTCTCTCGCGCCCTAGA TCTAGGGCGAAGAACCTATGAGC 1649 GAAACGAGTCTCTCGCGCCCTAGA TCTAGGGCGAAGAACCTATGAGC 1650 CGGGACAGAAGCAAGTTACATCGG CCGATGTAACTTGCTTCTGTCCCG 1651 TGACCGCTCGATACCAGGAGGGTG CACCCTCCTGGTATCGAGCGGTCA 1652 CTGGCAATAAAGACCTTCCGACCA TGTCGGAAGGCTTTTTTCCCAG 1653 TGCGCGACGTCATGTTGGTGATTA TAATCACCAACATACCAGCAGCAGAGAGACCTCGTTTCCGAACCAACC	5	1641	GAAATGCCCTGGGGACTTTTTGCC	GGCAAAAAGTCCCCAGGGCATTTC
1644 CAACGGCGGTAGCTAAACCGTAA 1645 GGCCAACGACAATGCGAAACCTTC 1646 GACATCACGCAAACCTTC 1647 ACGTTCCGTCCACAACCGTATGTT 1648 GCTCATAGGTCTCACACCCGTATGTT 1648 GCTCATAGGTCTTCCGTAGCCCGT 1649 GAAACGAGTCTCTCGCGCCCTTAGACCGTAACCGTATGTC 1649 GAAACGAGTCTCTCGCGCCCTTAGACCGAAGACCTATGGCC 1650 CGGGACAGAAGCAAGTTACATCGG 1650 CGGGACAGAAGCAAGTTACATCGG 1651 TGACCGCTCGATACCAGAGGGTG 1652 CTGGCATACCAGGAGGGTG 1653 TGCGCGACGATACCAGGAGGGTG 1654 GTTGGTTGGGGACCACCACCGCT 1655 TGTGGGTTCGGAACCCCCCT 1655 TGTGGGTTCGGAACCCCCCT 1656 GGAAAAAACGGCCATTAGCCCGCT 1657 TGGTGCGGAACCACCCCCT 1658 AACCAACAGGAACCAACCCCCCT 1658 AACCAACAGGCAACTACCAGCAGT 1659 AAACAGATCCATCTGCACCACACCACCACACACCACCACACACA		1642	TTTGCCTTCACAACAGACGCAGCA	TGCTGCGTCTGTTGTGAAGGCAAA
1645 GGCCAACGACAATGCGAAACCTTC 1646 GACATCACGCAAAATCTCAGCGCA 1647 ACGTTCCGTCACAACCGTATGTT 1648 GCTCATAGGTCTTCCGTAGCCGT 1649 GAAACGAGTCTCCGTAGCCGT 1659 GAAACGAGTCTCTCGGCGCCCTAGAATCTTAGCTGAGACCTTTGTC 1650 CGGGACAGAACCAAGTTAGTT 1651 TGACCGCTCGAAACCGTATGTT 1652 CTGGCATAACAGGAGGGTG 1653 TGCGCGACGATACCAGAGGGTG 1654 GTTGGTTGTGGGACCGAACCGTATGAGCAGAGACCTATGTTCCAGCACAACTGTTTCGTCCGACAA 1653 TGCGCGACGTCATGTTGGTGATTA 1655 TGTGGGTTGTGGGACACACCGCCT 1655 TGTGGGTTCGGACCAACCGCCT 1655 TGTGGGTTCGGAACACACCCGCT 1655 TGTGGGTTCGGAACACACCGCCT 1655 TGTGGGTTCGGAACACACCGCCT 1656 GGAAAAAACGGCAATTAGCCGAGAT 1657 TGGTGCGGAACCACCACAACTACCGACCACACATGACCTCCGACCACACACA		1643	AAATCCCAAGACGTCGGGGCGTAT	ATACGCCCGACGTCTTGGGATTT
10 1646 GACATCACGCAAAATCTCAGCGCA TGCGCTGAGATTITTGCGTGATGTC 1647 ACGTTCCGTCCACAACCGTATGTT AACATACGGTTGGACGGAACGT 1648 GCTCATAGGTCTTCCGTAGCCCGT ACGGCTACGGAAGACCTATGAGC 1649 GAAACGAGTCTCTCGGCGCCCTAGA TCTAGGGCGGAGGACCTGTTTC 1650 CGGGACAAACCAAGTTACATCGG CCGATGTAACTTGCTTCTGTCCGG 1651 TGACCGCTCGATACCAGGAGGGTG CACCCTCCTGGTATCGAGCGGTCA 1652 CTGGCAATAAAGACCTTCCGACCA TGGTCGGAAGGTCTTATTGCCAG 1653 TGCGCGACGTCATGTTGGTGATTA TAATCACCAACATGAGGTCGGCACA 1654 GTTGGTTGTGGGAACCACCCCGCT AGCGGGTGTTTCCCACAACCAAC 1655 TGTGGGTTCGGAAACACACGCGCT AGCGGGTGTTTCCCACAACCAAC 1656 GGAAAAAACGGCAATTAGCCGAGT ACTCGGCTAATTGCCGTTTTTCC 1657 TGGTGCGGAAGTCCCTCTATTGGG 1658 AACCAACAGGCAGTCATTTGCCGACCA AGTCTGGGCTACACCTCCGCACCA 1658 AACCAACAGGCAGCCCAGACT ACTCGGCTAATTGCCGTTTTTTCC 1657 TGGTGCGGAGTGCCCTCTATTGGG 1658 AACCAACAGGCAGCCCAGACT ACTCGGCTAATTGCCGTTTGTT 1660 GGAATACCGCGCGCGATTATGGCTT AGCCCAGACGACGACGACGACGACACACACACACACACA		1644	CAACGGCCGTAGCTAAACCGTAA	TTACGGTTTAGCTACCGCCCGTTG
1647 ACGTTCCGTCCACAACCGTATGTT AACATACGGTTGTGGACGGAACGT 1648 GCTCATAGGTCTTCCGTAGCCCGT ACGGCTACGGAAGACCTATGAGC 1649 GAAACGAGTCTCTCGCGCCCTAGA TCTAGGGCGGAGGACACCTATGAGC 1650 CGGGACAGAAGCAAGTTACATCGG CCGATGTAACTTGCTTCTGTCCCG 1651 TGACCGCTCGATACCAGGAGGGTG CACCCTCCTGGTATCGAGCGGTCA 1652 CTGGCAATACAAGACCTTCCGACCA TGGTCGGAAGGTCTTTATGCCAG 1653 TGCGCGACGTCATGTTGGTGATTA TAATCACCAACATGACGTCCGGCA 1654 GTTGGTTGTGGGAACCACCCGCT AGCGGTGTGTTCCCACAACCAAC 1655 TGTGGGTTCGGAAACACACCCGCT AGCGGTGTGTTCCCACAACCAAC 1656 GGAAAAACGGCAATTAGCCGAGT ACTCGGCTAATTGCCGTTTTTTCC 1657 TGGTGCGGAGTGCCTTATTGGG CCCAATAGAGGGCACTCCGCACCA 1658 AACCAACAGGCAGTCACTCTATTGGG CCCAATAGAGGGCACTCCGCACCA 1659 AAACAGATCCATCTGCACGCCAGG CCTGGCTGCAGCCTGTGGTT 1660 GGAATACCGCGGCGATTATGGCTT AAGCCATAATCGCCGGCATTTCC 25 1661 TACTGTTCGCGGCAAACCGTCACT AGTCTGGCTGCAGCCTGTGGTT 1662 GATCTCTCTGTGGACGCCAGAC TGTGACGCTCGCACCAACAGACGACACACACAGCACACACA		1645	GGCCAACGACAATGCGAAACCTTC	GAAGGTTTCGCATTGTCGTTGGCC
1648 GCTCATAGGTCTTCCGTAGCCCGT ACGGCTACGGAAGACCTATGAGC 1649 GAAACGAGTCTCTCGCGCCCTAGA TCTAGGGCGCGAGAGACTCGTTTC 1650 CGGGACAGAAGCAAGTTACATCGG CCGATGTAACTTGCTTCTGTCCCG 1651 TGACCGCTCGATACCAGGAGGGTG CACCCTCCTGGTATCGAGCGGTCA 1652 CTGGCAATAAAGACCTTCCGACCA TGGTCGGAAGGTCTTTATTGCCAG 1653 TGCGCGACGTCATGTTGGTGATTA TAATCACCAACATGACGTCGCCGCA 1654 GTTGGTTGTGGGAACACACCCCGCT AGCGGGTGTGTTCCCACACCACA	10	1646	GACATCACGCAAAATCTCAGCGCA	TGCGCTGAGATTTTGCGTGATGTC
1649 GAAACGAGTCTCTCGCGCCCTAGA TCTAGGGCGCGAGAGACTCGTTTC 1650 CGGGACAGAAGCAAGTTACATCGG CCGATGTAACTTGCTTCTGTCCCG 1651 TGACCGCTCGATACCAGGAGGGTG CACCCTCCTGGTATCGAGCGGTCA 1652 CTGGCAATAAAGACCTTCCGACCA TGGTCGGAAGGTCTTATTGCCAG 1653 TGCGCGACGTCATGTTGGTGATTA TAATCACCAACATGACGTCGCGCA 1654 GTTGGTTGTGGGAACCACCCGCT AGCGGGTGTTTCCCACAACCAAC 1655 TGTGGGTTCGGAAACACACCCGCT AGCGGGTGTTTCCCAACACAC 1656 GGAAAAAACGGCAATTAGCCGAGT ACTCGGCTAATTGCCGTTTTTTCC 1657 TGGTGCGGAGTGCCCTCTATTGGG 1658 AACCAACAGGCTGCAGCCCAGACT AGTCTGGGCTGATTGCCGTTTTTTC 1658 AACCAACAGGCTGCAGCCCAGACT AGTCTGGGCTGAGCCTGTTGGTT 1659 AAACAGATCCATCTGCACGCCAGG CCTGGCCTGCAGCCTGTTGGTT 1660 GGAATACCGCGGCGATTATGGCTT AAGCCATAATCGCCGGCGATTTCC 25 1661 TACTGTTCGCGGCAAACCGTCACT AGTGAGCGTTCCGCACCACACACACACACACACACACACA		1647	ACGTTCCGTCCACAACCGTATGTT	AACATACGGTTGTGGACGGAACGT
1650 CGGGACAGAAGCAAGTTACATCGG CCGATGTAACTTGCTTCTGTCCCG 1651 TGACCGCTCGATACCAGGAGGGTG CACCCTCCTGGTATCGAGCGGTCA 1652 CTGGCAATAAAGACCTTCCGACCA TGGTCGGAAGGTCTTTATTGCCAG 1653 TGCGCGACGTCATGTTGGTGATTA TAATCACCAACATGACGTCGCGCA 1654 GTTGGTTGTGGGAACACACCCGCT AGCGGGTGTGTTCCCACAACCAAC 1655 TGTGGGTTCGGAAACACACCGGCT AGCGGGTGTGTTCCCACAACCACAC 1656 GGAAAAAACGGCAATTAGCCGAGT ACTCGGCTAATTGCCGTTTTTTCC 1657 TGGTGCGGAAGCCCAAGAT ACTCGGCTAATTGCCGTTTTTTCC 1658 AACCAACAGGCTGCCCTAATTGGG CCCAATAGAGGGCACTCCGCACCA 1659 AAACAGGTCCAAGCCCAAGACT AGTCTGGGCTGCAGCCTGTGGTT 1660 GGAATACCACCGCCAGAC CCTGGCGTGCAGCCTGTTGTTT 1660 GGAATACCGCGGCGATTATGGCTT AAGCCATAATCGCCGCGGATATTCC 1661 TACTGTTCGCGGCAAACCGTCACT AGTGACGGTTTGCCGCACACACACACACACACACACACAC		1648	GCTCATAGGTCTTCCGTAGCCCGT	ACGGGCTACGGAAGACCTATGAGC
15 1651 TGACCGCTCGATACCAGGAGGGTG CACCCTCCTGGTATCGAGCGGTCA 1652 CTGGCAATAAAGACCTTCCGACCA TGGTCGGAAGGTCTTTATTGCAG 1653 TGCGCGACGTCATGTTGGTGATTA TAATCACCAACATGACGTCGCGCA 1654 GTTGGTTGTGGGAACACCCCGCT AGCGGGTGTTCCCCACAACCAAC 1655 TGTGGGTTCGGAAACACACGGAAGT ACTTCCTGTGTTTCCGAACCCACA 1655 TGGGGTCGGAACACACGGAAGT ACTCCGTGTTTCCGAACCCACA 1656 GGAAAAAACGGCAATTAGCCGAGT ACTCGGCTAATTGCCGTTTTTTCC 1657 TGGTGCGGAGTGCCCTCTATTGGG CCCAATAGAGGGCACTCCGCACCA 1658 AACCAACAGGCTGCAGCCCAGACT AGTCTGGGCTGCAGCCTGTTGGTT 1659 AAACAGATCCATCTGCACGCCAGG CCTGGCGTGCAGACTGTTTT 1660 GGAATACCGCGGCGATTATGGCTT AAGCCATAATCGCCGCGGTATTCC 1661 TACTGTTCGCGGCAAACCGTCACT AGTGACGGTTTGCCGCACACACACACACACACACACACAC		1649	GAAACGAGTCTCTCGCGCCCTAGA	TCTAGGGCGCGAGAGACTCGTTTC
1652 CTGGCAATAAAGACCTTCCGACCA TGGTCGAAGGTCTTTATTGCCAG 1653 TGCGCGACGTCATGTTGGTGATTA TAATCACCAACATGACGTCGCGCA 1654 GTTGGTTGTGGGAACACACCCGCT AGCGGGTGTGTTCCCACAACCAAC 1655 TGTGGGTTCGGAAACACACGGAAGT ACTTCCTGTGTTTCCGAACCCACA 1655 TGTGGGTTCGGAAACACAGGAAGT ACTTCCTGTGTTTCCGAACCCACA 1656 GGAAAAAACGGCAATTAGCCGAGT ACTCGGCTAATTGCCGTTTTTTCC 1657 TGGTGCGGAGTGCCCTCTATTGGG CCCAATAGAGGGCACTCCGCACCA 1658 AACCAACAGGCTGCAGCCCAGACT AGTCTGGGCTGCAGCCTGTTGGTT 1659 AAACAGATCCATCTGCACGCCAGG CCTGGCGTGCAGCCTGTTGTT 1660 GGAATACCGCGGCGATTATGGCTT AAGCCATAATCGCCGCGGTATTCC 1661 TACTGTTCGCGGCCAAACCGTCACT AGTGACGGTTTGCCGCGAACAGTA 1662 GATCTCTCGTGGAGCACACTTTTCC GGAAAACGTGCTCCACACAGAGATC 1663 GGCATAGCAAACCTTCACT AGTGACGTCCCACAGAGAGATC 1664 ATCTGGGATCCGCAGCCAATATC GATATTGGCTCCACAGAGAACCTGCCCAGAT 1665 CGATCAGGATATCATTACCCCC CGGCGTAAATGCTACCAGAT 1666 ACGGTACCGAAACGGTCTCACCG TGGGTAAATGATATCCTGATCG 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGGTACCGT 1668 GCACGAGAACCTAATTGTCGCACA TCGGAACACGGTTTCGGTACCGT 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGACAATTACGTGGCG 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTCTTGATCGTGGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTCTTGATCGTGGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTCTTTGATCGTGGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTCTTTGATCGTGGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTCTTTTAACGGG 1660 AGGGACCTTTTAACTCCGATCCCTCCGGTGCTCTTTTAACGGG 1661 AGAGAAGGTCATTTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1662 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAAGAGGGCCCG 1663 ACATCGCGTCCGAGGGAGTTAGCG CGCTGACCTCCTCGGACCCGATTG 1664 AATGCCTAATTGCCTGCGGTG CACCGACAGGCAATGACCTTCTCT 1667 CTCGATTTTTAAACCGGCGGTT AAGCGCCGGTTTAAAAAGAACGCCAGGTTAAGGCCTGCTTTAAAAGAACGCCGATG 1667 AATGCCTAATTGCGGGGACCTTAAGGCCACGGGTTTAAAAAAGATCGAG 40 1666 CGTTCCTGGAAGGCAGGGGTCTCAC GTGAGACCCTTCCAGGAACGAGAACGGAACG		1650	CGGGACAGAAGCAAGTTACATCGG	CCGATGTAACTTGCTTCTGTCCCG
1653 TGCGCGACGTCATGTTGGTGATTA TAATCACCAACATGACGTCGCGCA 1654 GTTGGTTGTGGGAACACACCCGCT AGCGGGTGTGTTCCCACAACCAAC 1655 TGTGGGTTCGGAAACACAGGAAGT ACTTCCTGTGTTTCCGAACCCACA 1656 GGAAAAAACGGCAATTAGCCGAGT ACTCGGCTAATTGCCGTTTTTTCC 1657 TGGTGCGGAGTGCCCTCTATTGGG CCCAATAGAGGGCACTCCGCACCA 1658 AACCAACAGGCTGCAGCCCAGACT AGTCTGGGCTGCAGCCTGTTGGTT 1659 AAACAGATCCATCTGCACGCCAGG CCTGGCGTGCAGCCTGTTGTT 1660 GGAATACCGCGGGCGATTATGGCTT AAGCCATAATCGCCGCGGTATTCC 25 1661 TACTGTTCGCGCGCACCACA AGTGACGGTTTGCCGACCACA 1662 GATCTCTCGTGGAGCACCACT AGTGACGGTTTGCCGCACACACACACACACACACACACAC	15	1651	TGACCGCTCGATACCAGGAGGGTG	CACCCTCCTGGTATCGAGCGGTCA
1654 GTTGGTTGTGGGAACACCCGCT AGCGGTGTGTTCCCACAACCAAC 1655 TGTGGGTTCGGAAACACAGGAAGT ACTTCCTGTGTTTCCGAACCCACA 1656 GGAAAAAACGGCAATTAGCCGAGT ACTCGGCTAATTGCCGTTTTTTCC 1657 TGGTGCGGAGTGCCCTCTATTGGG CCCAATAGAGGGCACTCCGCACCA 1658 AACCAACAGGCTGCAGCCCAGACT AGTCTGGGCTGCAGCCTGTTGGTT 1659 AAACAGATCCATCTGCACGCCAGG CCTGGCGTGCAGACTGTTTT 1660 GGAATACCGCGGGCGATTATGGCTT AAGCCATAATCGCCGCGGGTATTCC 25 1661 TACTGTTCGCGGCAAACCGTCACT AGTGACGGTTTGCCGCGAACAGTA 1662 GATCTCTCGTGGAGCACGTCACT AGTGACGGTTTGCCGCGAACAGTA 1663 GGCATAGCAAACCTTGACCTCCAA TTGGAGGTCACACGAGAGATC 1664 ATCTGGGATTCGCGAGCCAATATC GATATTGGCTCCACGAGAGATC 1665 CGATCAGGATACATTTACGCCCG CGGGCTAAATGATATCCTGATCG 1666 ACGGTACCGAAACCGTCACT ACGCTGAGACACGTTTCCGATCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTGTGAGTTAACGGG 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACCGCATTG 1674 AATGCCTAATCGAGCCAGCGGTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTTCCAGGAACGAACGAACGAACGAACGAACG		1652	CTGGCAATAAAGACCTTCCGACCA	TGGTCGGAAGGTCTTTATTGCCAG
1655 TGTGGGTTCGGAAACACAGGAAGT ACTTCCTGTGTTTCCGAACCCACA 1656 GGAAAAAACGGCAATTAGCCGAGT ACTCGGCTAATTGCCGTTTTTTCC 1657 TGGTGCGGAGTGCCCTCTATTGGG CCCAATAGAGGGCACTCCGCACCA 1658 AACCAACAGGCTGCAGCCCAGACT AGTCTGGGCTGCAGCCTGTTGTT 1659 AAACAGATCCATCTGCACGCCAGG CCTGGCGTGCAGATGGATCTGTTT 1660 GGAATACCGCGGCGATTATGGCTT AAGCCATAATCGCCGCGGTATTCC 1661 TACTGTTCGCGGCAAACCGTCACT AGTGACGGTTTGCCGCGAACAGTA 1662 GATCTCTCGTGGAGCACGTCACT AGTGACGGTTTGCCGCGAACAGTA 1663 GGCATAGCAAACCTTGACCTCCAA TTGGAGGTCCACGAGAGATC 1664 ATCTGGGATTCGCGGAGCACATATC GATATTGGCTCGCGAATCCCAGAT 1665 CGATCAGGATATCATTTACGCCCG CGGGCGTAAATGATATCCTGATCG 1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGATCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACACATTACGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTTTGATCGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTACTGTTCCT 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGGTT AAGCGCCGGTTTAAAAAAAAAA	-	1653	TGCGCGACGTCATGTTGGTGATTA	TAATCACCAACATGACGTCGCGCA
20 1656 GGAAAAAACGGCAATTAGCCGAGT ACTCGGCTAATTGCCGTTTTTTCC 1657 TGGTGCGGAGTGCCCTCTATTGGG CCCAATAGAGGGCACTCCGCACCA 1658 AACCAACAGGCTGCAGCCCAGACT AGTCTGGGCTGCAGCCTGTTGGTT 1659 AAACAGATCCATCTGCACGCCAGG CCTGGCGTGCAGATGGATCTGTTT 1660 GGAATACCGCGGCGATTATGGCTT AAGCCATAATCGCCGCGGTATTCC 1661 TACTGTTCGCGGCAAACCGTCACT AGTGACGGTTTGCCGCGAACAGTA 1662 GATCTCTCGTGGAGCACGTTATCC GGAAAACGTGCTCCACGAGAGATC 1663 GGCATAGCAAACCTTGACCTCCAA TTGGAGGTCACAGGAGATCC 1664 ATCTGGGATTCGCGAGCCAATATC GATATTGGCTCCAGAGAGATC 1665 CGATCAGGATATCATTTACGCCCG CGGGCGTAAATGATATCCTGATCG 1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGATCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTTTGATCGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGGTT AAGCGCCGGTTTAAAAAAAAAA		1654	GTTGGTTGTGGGAACACACCCGCT	AGCGGGTGTGTTCCCACAACCAAC
1657 TGGTGCGGAGTGCCCTCTATTGGG CCCAATAGAGGGCACTCCGCACCA 1658 AACCAACAGGCTGCAGCCCAGACT AGTCTGGGCTGCAGCCTGTTGGTT 1659 AAACAGATCCATCTGCACGCCAGG CCTGGCGTGCAGATGGATCTGTTT 1660 GGAATACCGCGGGCGATTATGGCTT AAGCCATAATCGCCGCGGTATTCC 1661 TACTGTTCGCGGCAAACCGTCACT AGTGACGGTTTGCCGCGAACAGTA 1662 GATCTCTCGTGGAGCACGTTTTCC GGAAAACGTGCTCCACGAGAGATC 1663 GGCATAGCAAACCTTGACCTCCAA TTGGAGGTCAGGATTGCTATGCC 1664 ATCTGGGATTCGCGAGCCAATATC GATATTGGCTCGCGAATCCCAGAT 1665 CGATCAGGATATCATTTACGCCCG CGGCGTAAATGATATCCTGATCG 1666 ACGGTACCGAAACCGTTCTACCGA TCGGTAGACCGTTTCGGTACCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAGACCGTTTCGGTACCGT 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTGTATCGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCC CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGTTC AATCCGCTCGGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTTCCCAGGAACG		1655	TGTGGGTTCGGAAACACAGGAAGT	ACTTCCTGTGTTTCCGAACCCACA
1658 AACCAACAGGCTGCAGCCCAGACT AGTCTGGGCTGCAGCCTGTTGGTT 1659 AAACAGATCCATCTGCACGCCAGG CCTGGCGTGCAGATCGATCTGTTT 1660 GGAATACCGCGGCGATTATGGCTT AAGCCATAATCGCCGCGGTATTCC 1661 TACTGTTCGCGGCAAACCGTCACT AGTGACGGTTTGCCGCGAACAGTA 1662 GATCTCTCGTGGAGCACCGTTTTCC GGAAAACGTGCTCCACGAGAGATC 1663 GGCATAGCAAACCTTGACCTCCAA TTGGAGGTCAAGGTTTGCTATGCC 1664 ATCTGGGATTCGCGGAGCCAATATC GATATTGGCTCGCGAATCCCAGAT 1665 CGATCAGGATATCATTTACGCCCG CGGGCGTAAATGATATCCTGATCG 1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGGTACCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTTCCCAGGAACG	20	1656	GGAAAAACGGCAATTAGCCGAGT	ACTCGGCTAATTGCCGTTTTTTCC
1659 AAACAGATCCATCTGCACGCCAGG CCTGGCGTGCAGATGGATCTGTTT 1660 GGAATACCGCGGCGATTATGGCTT AAGCCATAATCGCCGCGGTATTCC 25 1661 TACTGTTCGCGGCAAACCGTCACT AGTGACGGTTTGCCGCGAACAGTA 1662 GATCTCTCGTGGAGCACGTTTTCC GGAAAACGTGCTCCACGAGAGATC 1663 GGCATAGCAAACCTTGACCTCCAA TTGGAGGTCAAGGTTTGCTATGCC 1664 ATCTGGGATTCGCGAGCCAATATC GATATTGGCTCGCGAATCCCAGAT 1665 CGATCAGGATATCATTTACGCCCG CGGGCGTAAATGATATCCTGATCG 1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGGTACCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTTCCCAGGAACG		1657	TGGTGCGGAGTGCCCTCTATTGGG	CCCAATAGAGGGCACTCCGCACCA
1660 GGAATACCGCGGCGATTATGGCTT AAGCCATAATCGCCGCGGTATTCC  1661 TACTGTTCGCGGCAAACCGTCACT AGTGACGGTTTGCCGCGAACAGTA  1662 GATCTCTCGTGGAGCACGTTTTCC GGAAAACGTGCTCCACGAGAGATC  1663 GGCATAGCAAACCTTGACCTCCAA TTGGAGGTCAAGGTTTGCTATGCC  1664 ATCTGGGATTCGCGAGCCAATATC GATATTGGCTCGCGAATCCCAGAT  1665 CGATCAGGATATCATTTACGCCCG CGGCGTAAATGATATCCTGATCG  1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGGTACCGT  1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG  1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC  1669 GCCACACGATCAAGACAGCGCATG CATGCGTTCTTGATCGTGCGGG  1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG  1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT  1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG  1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT  1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT  1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAAGATCGAG  40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTTCCCTCCAGGAACG		1658	AACCAACAGGCTGCAGCCCAGACT	AGTCTGGGCTGCAGCCTGTTGGTT
25 1661 TACTGTTCGCGGCAAACCGTCACT AGTGACGGTTTGCCGCGAACAGTA 1662 GATCTCTCGTGGAGCACGTTTTCC GGAAAACGTGCTCCACGAGAGATC 1663 GGCATAGCAAACCTTGACCTCCAA TTGGAGGTCAAGGTTTGCTATGCC 1664 ATCTGGGATTCGCGAGCCAATATC GATATTGGCTCGCGAATCCCAGAT 1665 CGATCAGGATATCATTTACGCCCG CGGGCGTAAATGATATCCTGATCG 30 1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGGTACCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTTTGATCGTGTGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 35 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1659	AAACAGATCCATCTGCACGCCAGG	CCTGGCGTGCAGATGGATCTGTTT
1662 GATCTCTCGTGGAGCACGTTTTCC GGAAAACGTGCTCCACGAGAGATC 1663 GGCATAGCAAACCTTGACCTCCAA TTGGAGGTCAAGGTTTGCTATGCC 1664 ATCTGGGATTCGCGAGCCAATATC GATATTGGCTCGCGAATCCCAGAT 1665 CGATCAGGATATCATTTACGCCCG CGGGCGTAAATGATATCCTGATCG 1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGGTACCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTGTTTGATCGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCC CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTTCCAGGAACG		1660	GGAATACCGCGGCGATTATGGCTT	AAGCCATAATCGCCGCGGTATTCC
1663 GGCATAGCAAACCTTGACCTCCAA TTGGAGGTCAAGGTTTGCTATGCC 1664 ATCTGGGATTCGCGAGCCAATATC GATATTGGCTCGCGAATCCCAGAT 1665 CGATCAGGATATCATTTACGCCCG CGGGCGTAAATGATATCCTGATCG 1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGGTACCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG	25	1661	TACTGTTCGCGGCAAACCGTCACT	AGTGACGGTTTGCCGCGAACAGTA
1664 ATCTGGGATTCGCGAGCCAATATC GATATTGGCTCGCGAATCCCAGAT 1665 CGATCAGGATATCATTTACGCCCG CGGGCGTAAATGATATCCTGATCG 1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGGTACCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1662	GATCTCTCGTGGAGCACGTTTTCC	GGAAAACGTGCTCCACGAGAGATC
1665 CGATCAGGATATCATTTACGCCCG CGGGCGTAAATGATATCCTGATCG 1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGGTACCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1663	GGCATAGCAAACCTTGACCTCCAA	TTGGAGGTCAAGGTTTGCTATGCC
1666 ACGGTACCGAAACGGTCTCAGCGT ACGCTGAGACCGTTTCGGTACCGT 1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1664	ATCTGGGATTCGCGAGCCAATATC	GATATTGGCTCGCGAATCCCAGAT
1667 CTCCCATACCTGCGTTCTTACCGA TCGGTAAGAACGCAGGTATGGGAG 1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 35 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1665	CGATCAGGATATCATTTACGCCCG	CGGGCGTAAATGATATCCTGATCG
1668 GCACGAGAACCTAATTGTCGCACA TGTGCGACAATTAGGTTCTCGTGC 1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 35 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG	30			
1669 GCCACACGATCAAGACAGCGCATG CATGCGCTGTCTTGATCGTGTGGC 1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG 35 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1667	CTCCCATACCTGCGTTCTTACCGA	TCGGTAAGAACGCAGGTATGGGAG
1670 CCCGTTAACTCACGAGCGGTCAAT ATTGACCGCTCGTGAGTTAACGGG  1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT  1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG  1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT  1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT  1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG  40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1668	GCACGAGAACCTAATTGTCGCACA	TGTGCGACAATTAGGTTCTCGTGC
35 1671 AGAGAAGGTCATTGCCTGTCGGTG CACCGACAGGCAATGACCTTCTCT 1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1669	GCCACACGATCAAGACAGCGCATG	CATGCGCTGTCTTGATCGTGTGGC
1672 CGGGCCCTCTTAAAGTAGAGCAGG CCTGCTCTACTTTAAGAGGGCCCG 1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1670	CCCGTTAACTCACGAGCGGTCAAT	ATTGACCGCTCGTGAGTTAACGGG
1673 ACATCGCGTCCGAGGGAGTTAGCG CGCTAACTCCCTCGGACGCGATGT 1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG	35	1671	AGAGAAGGTCATTGCCTGTCGGTG	CACCGACAGGCAATGACCTTCTCT
1674 AATGCCTAATCGAGCCAGCGGATC GATCCGCTGGCTCGATTAGGCATT 1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1672	CGGGCCCTCTTAAAGTAGAGCAGG	CCTGCTCTACTTTAAGAGGGCCCG
1675 CTCGATCTTTTTAAACCGGCGCTT AAGCGCCGGTTTAAAAAGATCGAG 40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1673	ACATCGCGTCCGAGGGAGTTAGCG	CGCTAACTCCCTCGGACGCGATGT
40 1676 CGTTCCTGGAAGGCAGGGTCTCAC GTGAGACCCTGCCTTCCAGGAACG		1674	AATGCCTAATCGAGCCAGCGGATC	GATCCGCTGGCTCGATTAGGCATT
		1675	CTCGATCTTTTTAAACCGGCGCTT	AAGCGCCGGTTTAAAAAGATCGAG
1677 CCTGTGCTTACTATCGGCGATCCA TGGATCGCCGATAGTAAGCACAGG	40		CGTTCCTGGAAGGCAGGGTCTCAC	GTGAGACCCTGCCTTCCAGGAACG
		1677	CCTGTGCTTACTATCGGCGATCCA	TGGATCGCCGATAGTAAGCACAGG

	1678	GTTAGTCGCCCTATTGGCCTGGTT	AACCAGGCCAATAGGGCGACTAAC
	1679	CCGGTGAGATGACTGTAAATGCCA	TGGCATTTACAGTCATCTCACCGG
	1680	CGTGGTTTAAAACATCGCGCTTCG	CGAAGCGCGATGTTTTAAACCACG
	1681	TAAGACGCAGAAGATGGGGTCCAC	GTGGACCCCATCTTCTGCGTCTTA
5	1682	CACCACAGCTTCTTTGTTCGACCC	GGGTCGAACAAAGAAGCTGTGGTG
	1683	TCGGGTCCGTACCACCACTTTTGC	GCAAAAGTGGTGGTACGGACCCGA
	1684	CCAAGCCCCGAGTACCGAAGATTT	AAATCTTCGGTACTCGGGGCTTGG
	1685	TCCGTGATATGGTCGTGGCGCGGT	ACCGCGCCACGACCATATCACGGA
	1686	TGTCTGTGTCATGGCACCTCGCAT	ATGCGAGGTGCCATGACACAGACA
10	1687	AGGACTGCACTGTGCACGTCTGAT	ATCAGACGTGCACAGTGCAGTCCT
	1688	CCATCCTCATGTACAGCGCCGCTG	CAGCGGCGCTGTACATGAGGATGG
	1689	GTACCCGCGCCTTCCTCGACACAG	CTGTGTCGAGGAAGGCGCGGGTAC
	1690	ACGGGTCCTGGTCGACTAAGGCTT	AAGCCTTAGTCGACCAGGACCCGT
	1691	CGTATCGAAGGCGTGTACAACCGG	CCGGTTGTACACGCCTTCGATACG
15	1692	TGCCCGCCCTTTATGCAACGCTCA	TGAGCGTTGCATAAAGGGCGGGCA
	1693	AAACTTACGAGACGGCGGCTGCCA	TGGCAGCCGCCGTCTCGTAAGTTT
	1694	AAGTCTGACAAACGGAACGGGTGT	ACACCCGTTCCGTTTGTCAGACTT
	1695	TAAGCGCAGACCAAAGTATGCGGC	GCCGCATACTTTGGTCTGCGCTTA
	1696	GCAGTTTTTCAGATCCTCCGCAAA	TTTGCGGAGGATCTGAAAAACTGC
20	1697	TCGGAAGCATTTACGCGATCTCAG	CTGAGATCGCGTAAATGCTTCCGA
	1698	CACAGAAACGGTTGAACGAACGCC	GGCGTTCGTTCAACCGTTTCTGTG
	1699	GCATGCTCAGATGGTCGTGCTCAC	GTGAGCACGACCATCTGAGCATGC
	1700	AAGGATTCTCGCTTCCGGCATGAT	ATCATGCCGGAAGCGAGAATCCTT
	- 1701	GGTGGGTAGCGCTGGTATGAAAA	TTTTCATACCAGCGCTACCCCACC
25	1702	ATTATTACGGGACCGAACCAACGG	CCGTTGGTTCGGTCCCGTAATAAT
	1703	GCGCGAGTGTCATGATGTTCACGT	ACGTGAAGATCATGACACTCGCGC
	1704	GACATTCGTGACTTGGTCGTCCGC	GCGGACGACCAAGTCACGAATGTC
	1705	TCATTAGTGCAGGCACCGATCAAG	CTTGATCGGTGCCTGCACTAATGA
	1706	GAGTTGTGCGGAGTCATCGGAGTC	GACTCCGATGACTCCGCACAACTC
30	1707	GCCTTTACAGATTTGGCGGGCTAT	ATAGCCCGCCAAATCTGTAAAGGC
	1708	ATGGCGTTTGCGAAGTCGATACAG	CTGTATCGACTTCGCAAACGCCAT
	1709	TGCATCGGCCTCAATCAGAGAACT	AGTTCTCTGATTGAGGCCGATGCA
	1710	ACAATCATGGCAATCTGGCAAATG	CATTTGCCAGATTGCCATGATTGT
	1711	GACGTGGAAGAGTGCAGATCAGCA	TGCTGATCTGCACTCTTCCACGTC
35	1712	AGGGCAGGGGACAGTAAGTC	GACTTACTGTCCGTCCCCTGCCCT
	1713	GCATAGGGCGAATCTAGTACGGGC	GCCCGTACTAGATTCGCCCTATGC
	1714	TCCGGCGCATCCTCATTAGCAACT	AGTTGCTAATGAGGATGCGCCGGA
	1715	TGGCCGCTTCCACTAATATTGGAC	GTCCAATATTAGTGGAAGCGGCCA
	1716	CCGGCGACGCTCTTGTCAATGA	TCATTGACAAGAGCCGTCCGCCGG
40	1717	CGAGCAACCCAAAAGGAAGCAGTA	TACTGCTTCCTTTTGGGTTGCTCG
	1718	GCGTATGATTCGGCAATCCGCCAG	CTGGCGGATTGCCGAATCATACGC

	1719	AGTACCGCTACAACGCTGGTTCGC	GCGAACCAGCGTTGTAGCGGTACT
[	1720	GGGCAGGCCAGGTCCACCTGAGAA	TTCTCAGGTGGACCTGGCCTGCCC
	1721	CCACTTCTGTGACCGAACCGTGCT	AGCACGGTTCGGTCACAGAAGTGG
	1722	CCTGGTACCAGGCAGCAGTTGATT	AATCAACTGCTGCCTGGTACCAGG
5	1723	TTAGGGTACCGTCGAGAGACGCCA	TGGCGTCTCTCGACGGTACCCTAA
	1724	GGTTGCTTGTGCGCGTGAGGTAGT	ACTACCTCACGCGCACAAGCAACC
	1725	TGCTTCGACCGATGAAACTCGAAG	CTTCGAGTTTCATCGGTCGAAGCA
Ī	1726	TGCCACCCATACTATGCCCAGTGG	CCACTGGGCATAGTATGGGTGGCA
	1727	TGTGCGGCAACGCGTGAAGACGTT	AACGTCTTCACGCGTTGCCGCACA
10	1728	TGAGAGAAGCTGGCCTCGGATCAG	CTGATCCGAGGCCAGCTTCTCTCA
Ī	1729	TATTGCGAATTCGAGTACGTGCCC	GGGCACGTACTCGAATTCGCAATA
	1730	CGAGAGGGGTTCCCCAGTGATCGA	TCGATCACTGGGGAACCCCTCTCG
	1731	TGCCTGGGGTGTCGTTCTAATTCT	AGAATTAGAACGACACCCCAGGCA
	1732	GTGCGTCATTGTGGGTCATCCCAA	TTGGGATGACCCACAATGACGCAC
15	1733	AGGGCTCCCAGCATACCAACGTTG	CAACGTTGGTATGCTGGGAGCCCT
	1734	AACTAGCCGCACCTTTGTGCAGAG	CTCTGCACAAAGGTGCGGCTAGTT
	1735	TTAGCCCAGCCCTTCAATGGGAAC	GTTCCCATTGAAGGGCTGGGCTAA
	1736	CGGCCTCGGTTGTACGGGTAGTCT	AGACTACCCGTACAACCGAGGCCG
	1737	TCTTTGAGGCGCGGACCCGCATAT	ATATGCGGGTCCGCGCCTCAAAGA
20	1738	GATGGTTCGCCCTTGTGTCGCAGC	GCTGCGACACAAGGGCGAACCATC
	1739	GAGATTCAATACAGGCCGCGGGTC	GACCCGCGGCCTGTATTGAATCTC
	1740	AGGGCGAAGGAAGGTTCCGTTTTT	AAAAACGGAACCTTCCTTCGCCCT
[	1741	CTCGACCCCTGCCACTACTGGTTC	GAACCAGTAGTGGCAGGGGTCGAG
	1742	TGTTCCGCGGTCTACGCATTACTG	CAGTAATGCGTAGACCGCGGAACA
25	1743	GAGACGACGTCCTACACCCGCTAA	TTAGCGGGTGTAGGACGTCGTCTC
	1744	AGATTGCGACAGCGACACGTGATT	AATCACGTGTCGCTGTCGCAATCT
	1745	GATACCGTTGGGCATTTCTCGGTA	TACCGAGAAATGCCCAACGGTATC
	1746	GATTGGGAGGCATTCAGCGACGGA	TCCGTCGCTGAATGCCTCCCAATC
	1747	AGGAGGAAACGAGGGCGTAGGTTC	GAACCTACGCCCTCGTTTCCTCCT
30	1748	GCCAAACAACGTCTGACGCCTAGC	GCTAGGCGTCAGACGTTGTTTGGC
	1749	TTTAATGCGGAAAGGATGCACGCG	CGCGTGCATCCTTTCCGCATTAAA
	1750	TTATCGGCCGTTAAAATGGGATGG	CCATCCCATTITAACGGCCGATAA
	1751	CCTTGGATTCGTTCATCGCTAGCA	TGCTAGCGATGAACGAATCCAAGG
	1752	AAGTGAACGTGCAGTGGTCTTCGA	TCGAAGACCACTGCACGTTCACTT
35	1753	TCCTTACCCCTCGTTCAAACGCCT	AGGCGTTTGAACGAGGGGTAAGGA
	1754	ATTCCTGAACCATGCATGGCCTGT	ACAGGCCATGCATGGTTCAGGAAT
1	1755	AGCGAGACGCTCGATCACGAACTA	TAGTTCGTGATCGAGCGTCTCGCT
	1756	GCTGGTCTGGCTCGCTGTTTAGAA	TTCTAAACAGCGAGCCAGACCAGC
	1757	CGTGCGCGCATAAAGATAGGTCT	AGACCTATCTTTATGCCGCGCACG
40	1758	TCTGGCACTCACATCGGACAGTCT	AGACTGTCCGATGTGAGTGCCAGA
	1759	ACCATTGGAGGACCACAGAGCTCC	GGAGCTCTGTGGTCCTCCAATGGT
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1761 ATATGCGTCGGATCGTACACGCA 1762 TGCTGGCGTCAACACTTCCCGATT 1763 CAGGGCGTGACACTTCCCGATT 1763 CAGGGCGTGCGGTGAACTACCCA 1763 CAGGGCGTGCGGTGAACTACCCA 1764 CATGGACTGCCGGTGAACTAGCCA 1766 CAGGGCATCGCGTGACACTCACCGCCACCGCCC 1766 AGCGGACACCCTGTACTCTCCTCCA 1766 AGCGGACACCATGCAACACTTCCCCACTGCCGCAGCAGTCCACTGCCGCAGTTGTCCGCAGCAGTTGCCGCAGCATTGCCGCAGCAGTTGCCAGCAGTTGCCAGCAGTTGCCAGCAGTTGCACCGCCCGC				
1762   TGCTGGCGTCAACACTTCCCGATT		1760	TCCAGGGTCGGAGTACATGGCGGG	CCCGCCATGTACTCCGACCCTGGA
1763 CAGGCGGTGCGGTGAACTAGCCA TGGCTAGTTCACCGACCGCCCTG 1764 CATGGACTGCGTACATCAGCTGG CCAGCTGATGTACGGCAGTCCATG 1765 CCGGCCATACGCTGGCAAGATTAC 1766 ACCGGACACCTGTACTCTCCTCCA 1766 ACCGGACACCTGTACTCTCTCCA 1767 GGAGCCACACCAGTGAAGATTGGT 1767 GGAGCCACACCAGTGCAAGATTGGT 1768 CGCCACCAGGAAATTGAAAAGACTG 1768 CGCCACCAGGAAATTGAAAAGACTG 1769 TGAAACGGATGTTGCTTGACG 1770 TTGAAAGGATGTTGCTTTGACG 1771 TGAAACGAAGTTGCTTTTGACG 1772 GAGTCTGCACTTTTCAAGAAGACACATCCGTTTCA 1773 GCTGGGTATAGTTTCAGTGG 1773 GCTGGGTATAGTTTGCAGTGG 1774 GCAGCCATGTCAGATTGTCAGTGG 1775 GCGCCAACTATATCCCACCGC 1776 TGGCGTTCAATTTCGCAACCC 1776 TGGCGTTCAATTTCCACCGCG 1776 TGGCGTTCAATTTCCCAACCC 1777 CAAAACTGACGGTTCATTCCACCGCG 1777 CCAAAACTGACGCTTGTTA TAACCAGCGTTGCAGAAGACCACTTGTTCGCAGCAACTTCACCCGCG 1778 AGGTGTCAGTGCAACCCCACTTGT 1779 CTTCCAAAACCGAATTGCCTACCCGCG 1779 CTTCCAAAACCGAATTGCCTACCCGCG 1779 CTTCCAAAACCGAATTTGCTTTGCCAGCACATTCCCCTACCCGTCAGCACTATTTTGCAATCCCACGCG 1778 TGGGGTTCAGTGCAACCCCACTTGT 1781 GCCAACAAGAACCCCAACTTGT 1782 TGGGGCTTCTGCAATTCGTCAC 1783 CGAGCAATTAGCTCCACCGCG 1784 ACCAACAATTGCCACGCCACACAATTGCACCACCCACACCCACACACA	į	1761	ATATGCCGTCGGATCGTACACGCA	TGCGTGTACGATCCGACGGCATAT
1764 CATGGACTGCCGTACATCAGCTGG CCAGCTGATGTACGGCAGTCCATG 1765 CCGGCCATACGCTGGCAAGATTAC GTAATCTTGCCAGCGTATGGCCGG 1766 AGCGGACACCTGTACTCTCCTCCA TGGAGGAGAGTACAGGTGTCCGCT 1767 GGAGCCACACCAGTCGAAGATGGT ACCATCTTCCACTGTTGTGCCCGCT 1768 TGAAACGGATGTTGATAGAAAGACTG CAGTCTTTTCAATTTCCGGTGGCGCG 1769 TGAAACGGATGTTGCTTCTTGACG CGTCAAGAAGCAACATCCGTTTCAA 1770 TTGAAGCGGTGAAGAGCCTGCCT AGGACAGAGCAACACTCCGTTTCAA 1771 CGAACCAAGCTGCATTGTCAGTGC CACTGACAAAGCACACTCCGTTTCAA 1772 GAGTCTGCGCTTGCAATCTTTTGCC CGCAACAATGCAGCTTCGGTTCG 1773 GCTGGGTATAGTTGCATGCTTTTGCC 1774 GCAGCGGTTCCAATATTCCCAACCC GGCAACATTGCAAGCGCACAT 1775 GCGCCAACTAATACCTCCACCGC GCCAACAATGCAACTGCAGCACA 1776 TGGCGTTCAGTATTCCCAACCC GGGTTGCAATTAGTTGCCGC 1777 GCGCCAACTAATACCTCCACCGC GCGCTCCCATACCCGTCAGATTTC 1777 CAAAACTGACGGGTATGGTATT TAACCAGCGTTGCATTTTGCCAGCCACTGCAATTCTCCACCGCG 1778 CTTCCAAAAGCGCAATTTGTCATTTT AAACCAGCGTTGCACTGAACGCCAACTTTTTCCCAACCCGCG GCGCTCCCATACCCGTCAGTTTTG 1778 AGGTGTCGCTGGAACCCGAACTTGT ACAAGCCCAATTGCCCTCAGTTTTG 1778 TGGGCCTCCCAATTCTGTCAG CTGACAGAATTGCGCACCCAACTTTTGCAACCCCTCAGTTTTG 1778 CTTCCAAAAGCGCAATTTGTCAG CTGACAGAATTGCGCTTCTGGAAG 1780 TCGGGCTTCTCGCAATTCTGTCAG CTGACAGAATTGCGCAGGACACCT 1781 GCCAAAAGAATGCGCTGGGTAGGT ACAAGTCCCGCACTATCTTTTTGCAG 1782 TGGTGCCCGCACCAGAAGACTGTA ACAAGTCCCACCCATACCGGCACCCAA 1783 CGAGGCCGTAGTGGGGACCCCAACTGTA ACAAGTCCCCACTACGGCCCCAA 1784 CGATCTGCCCACCAGAACCTGTA ACAAGTCCCCACTACGGCCCCAA 1785 TGTGCATCGGCCTTCCAGAGACC GGCTCCCATACCGGCCACCAATGGCCTTCTTCAGAGACC GGCTCCCATACCGGCCCACAATGGCCCTCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCACTACGGCCTTCCAGGACCC 1786 GATCACCTGGACCCGAACAGGCCGTAACATC GACCCAACAACGAACACGCCGAACCATGGCCTTCCAGGACCC 1789 CCACCCGTTCCGCAATTCCTGCACCA GGCCTCCCAACAACAACGCCGGACCCAATGGCCTTCCAGGACCC 1789 CCACCCGTTCCGTTTGTTCAGAACCAACCGGCTCCCAATGGCCTCCAACCAA		1762	TGCTGGCGTCAACACTTCCCGATT	AATCGGGAAGTGTTGACGCCAGCA
1766 CCGGCCATACGCTGGCAAGATTAC GTAATCTTGCCAGCGTATGGCCGG 1766 AGCGGACACCTGTACTCTCCTCA TGGAGGAGAGTACAGGTGTCCGCT 1767 GGAGCCACACCAGTCGAAGATGGT ACCATCTTCGACTGGTTGGCTCG 1768 CGCCACCGGAAATTGAAAAGACTG CAGTCTTTTCAATTTCCGGTGGCTC 1768 TGAAACGGATGTTGCTTCTTGACG CGTCAAGAACATCCGTTTCA 1770 TTGAAGCGGTGAAGAGCCTGTCCT AGGACAAGACAACCCGGTTCAA 1771 CGAACCAAGCTGCATTGTCAGTGG CCACTGACAATGCAACATCCGTTTCAC 1772 GAGTCTGCGCTTGCAATCTTTGCG CGCAAAGATTGCAAGCGCAGACTC 1773 GCTGGGTATAGTTGCCTGCCAATC 1774 GCAGCCAAGCTCCAATCTTTGCG GGCAAAGATTGCAAGCGCAGACTC 1775 GCGCGCAACTAATACCCCACCC GGGTTGCAAATTAGGAACCCAGC 1776 TGGCGTTCAATATACCTCCACCGC GCGTGGAAGATATAGCACAGC 1777 CCAAAACTGACGCAACCC GGGTTGCGAATTATGGAACCCAGC 1778 TGGCGTTCAGTGCAACCC GCGTGGAGGTATTAGTTGCCGC 1778 AGGTGTCAGTGCAACCCGACTTGT AAACCAGCGTTCCAAGCCCAGACTTTT 1780 TCGGGCTTCTGGAACCCGACTTGT AAAGCCAATTGCCATGCAGCCAGACTT 1781 GCCAAAAAGATGCGCTAGTTTG 1782 TGGGGCTTCTGCAATTCTGTCAG 1783 CGAGGCCTAAGAGCGAATTGGCTTTG 1784 CGAATTGCGAACCCGACTTTT 1784 CGATCTCCGAATTGGTCAAG 1785 TGGGCCTCCAATAGAGGGAACTTTA TACAGTCTCTCAGGGCCCAC 1786 CGAACTAGAGGGGACTTGT AAAGCCAATTGCGAGAAGCCCAG 1787 CGAGCCGTAGGGGGACTGTA TACAGTCTCTAGGGGGCCCAC 1788 CGATCACCAGAGACTGTA TACAGTCTCTCAGGGCCCCACTACGGCCTCC 1788 CGATCACCTGGAGACCTGCTCT AGAGCAGTTCCTATGCGAGAAGCCCAC 1788 CGATCACCTGGACCCGTACCGGTTT AAAACCCCACGCATTCTTTTTGGC 1788 CATCACCTGGACCCGTACCGGTTT AAAACCCCAATGCGCCTCCATACGGCCTCC 1788 CATCACCTGGACCCGTACCGGTTT AAACCCAAGCCATTGCCCACTACGGCCTCC 1788 CATCACCTGGACCGCTTCCAGACC 1789 CCACCACTGCCCTTCTCAGAGCC 1780 CACCCTGTTCGTGAACCC 1780 CACCCGTGCGTTGGTTAACACC 1780 CACCCGTGCCTTCTCAGAGCC 1780 CACCCGTGCGTTGGTTAACACC 1780 CACCCGTGCCTTCTCAGAGCC 1780 CACCCACTGCCCTCCCACCAGGCCACCACTGCTCCCACTAGGCCCACTGCTCCCACTAGGCCCACCACTGCCTCCACACACA		1763	CAGGGCGGTGCGGTGAACTAGCCA	TGGCTAGTTCACCGCACCGCCCTG
1766 AGCGGACACCTGTACTCTCCCA TGGAGGAGATCAGGTGTCCGCT 1767 GGAGCCACCAGTCGAAGATGGT ACCATCTTCGACTGGTGTGGCTCC 1768 TGAAACGGATGTTGATTTGACT CGTCACTTTCAATTTCCGGTGGCG 1770 TTGAAGCGGTGAAGAGGCCTTCCA AGGACAGCACACTCCGTTTCAA 1771 CGAACCAAGCTGCATTTGACG CGCACAGAAGCAACATCCGTTTCAA 1771 CGAACCAAGCTGCATTTGCCACCCTCCAA 1772 GAGTCTGCGCTTGCAATCTTTGCG CGCAAAGAAGCAACATCCGTTCAA 1773 GCTGGGTATAGTTGCCTGGCAATG 1774 GCAGGCGTTCCAATTTTGCG CGCAAAGATTGCAAGCGCAGACTC 1775 GCGCCAACTAACCTCCACCCC GGGTTGCAATAGCACCAGC 1776 TGGCGTTCCAATATCCTCCACCCCG CGCGGTGGAATAGCACCCAGC 1777 CCAAAACTGACGGGGTTACCACCCCG CGCGGTGGAATATGCACCCGCA 1777 CCAAAACTGACGGGGTTACCCACCCGCCACCCATACCCCGTCCAATTTCCCACCCGC 1778 AGGTGTCCGTGGAACCCGACTTGT ACCAGCGGTTCCACTGCACCCCACCGCAAAACATTGCACTCTGCACCCCACCGCACACCTTTTCCACCCGCATTTCCACCCGCACCCACC	5	1764	CATGGACTGCCGTACATCAGCTGG	CCAGCTGATGTACGGCAGTCCATG
1767 GGAGCCACCAGTCGAAGATGGT ACCATCTTCGACTGGTGTGGCTCC 1768 CGCCACCGGAAATTGAAAAGACTG CAGTCTTTCAATTTCCGGTGGCG 1769 TGAAACGGATGTTGCTTCTTGACG CGTCAAGAAGCAACATCCGTTTCA 1770 TTGAAGCGGTGAAGAGCCTGTCCT AGGACAGCATCCGTTTCA 1771 CGAACCAAGCTGCATTGTCAGTGG CCACTGACAATGCAGCTTCGATCAG 1772 GAGTCTGCATGTTGCATCTTGCG 1773 GCTGGGTATGAATCTTTGCG 1773 GCTGGGTATAGTTGCCTGCAATC 1774 GCAGCCAAGCTTCCATATTCGCAACCC GGGTTGCAATATGCAAGCGCAAGCTC 1775 GCGCCAACTAATACCTCCACCGC GCGGTGGAGGATATAGTTGGCG 1776 TGGCTTCAGTGCAACGCTGGTTA TAACCAGCGTTACCCGTCG 1777 CAAAACTGACAGCTGGTTA TAACCAGCGTTCCATTGTTGCA 1777 CAAAACTGACGGTATGGGAGCC GCGCTCCCATACCCGTCAGTTTTG 1778 AGGTGTCGCTGGAACCCGACTTGT ACAAGCCAATTGCGCTTTTGAAGCGAACCCA 1779 CTTCCAAAACGGAACCGACTTGT ACAAGCCAATTGCGCTTTTGGAAG 1780 TCGGGCTTCTCGCAATTCTGTCAG CTGACCAGCGACACCCGACTTGT ACAAGCCAATTGCGCTTTTTGGAAG 1781 GCCAAAAGAATGCGCTGGGTAGGT ACCTCACCCGTCAGTTTTTGGAAG 1782 TGGTGCCCGCACCGAAGAGCTGTA ACAGTCCGAGCACCCGACTTTTTTGGC 1783 CCGAGCCCTAGTGGGGACCCGACTGTA ACAGCCCACTACCCGGCTCCCTACCCCGTACCCGACCCG		1765	CCGGCCATACGCTGGCAAGATTAC	GTAATCTTGCCAGCGTATGGCCGG
1768 CGCCACCGGAAATTGAAAAGACTG CAGTCTTTCAATTTCCGGTGGCG 1769 TGAAACGATGTTGCTTCTTGACG CGTCAAGAAGCAACATCCGTTTCA 1770 TTGAAGCGGTGAAGAGCCTGTCCT AGGACCAAGCAACATCCGTTTCA 1771 CGAACCAAGCTGCATTGTCAGTGG CCACTGACAATGCAGTTCAA 1772 GAGTCTGCCGTTGCAATTCTTCAGTGG CCACTGACAATGCAGCTTGAA 1773 GCTGGGTATAGTTGCCTGGCAATG 1774 GCAGCGATTGCCATGTCAACCC GCGAAAGATTGCAAGCGCAGACTG 1775 GCGCCAACTAATTCCCAACCC GGGTTGCAATTAGTTGGCGC 1776 TGGCGTTCAATTTCGCAACCC GGGTTGCAATAGTTGGCCGC 1776 TGGCGTTCAATTCCCACCGC CGCGGTGGAGGTATTAGTTGGCGC 1777 CAAAACTGACGGGTATTGGGAGCCC CGCGGTGCAGCTCATTTTC 1778 AGGTGTCGCTGGAACCCTGGTTA TAACCAGCGTTGCAACGCCA 1777 CTACAAACTGACGGGTATTGGCAGCCC 1779 CTTCCAAAAGCGCAATTTGTCAC 1780 TCGGGCTTCTCGCAATTCTGTCAG 1781 GCCAAAAGAATGCGCTGGTTA CAAAGCCCAATTGCGCTTTTTGGAAG 1782 TGGTSCCCGCACCGAGAACTGTA ACAAGCCCAATTGCGACACCCAATTGCCTTTTTGGAAG 1783 CGAGCCCGTAGTGGGGACCTTTA ACAAGTCCACCACCACCACACCCAATTGCCACACCCCACCACACCCACACCCGAAGACTGTA TACAGCCCACTTCTTTTGGCCACACCCCACACCCACACCCACACCCACACCCCACACCCC		1766	AGCGGACACCTGTACTCTCCTCCA	TGGAGGAGAGTACAGGTGTCCGCT
1769 TGAAACGGATGTTGCTTCTTGACG CGTCAAGAAGCAACATCCGTTTCAACACTTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTTCAACACTCAACACTTCAACACTCAACACTTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACTCAACACACTCAACACACTCAACACTCAACACTCAACACTCAACACACACACTCAACACACACACACTCAACACACACACACTCAACACACACACACACACACACACACACACACACACACAC		1767	GGAGCCACACCAGTCGAAGATGGT	ACCATCTTCGACTGGTGTGGCTCC
1770 TTGAAGCGGTGAAGAGCCTGTCCT AGGACAGGCTCTTCACCGCTTCAA 1771 CGAACCAAGCTGCATTGTCAGTGG CCACTGACAATGCAGCTTGGTTCG 1772 GAGTCTGCGCTTGCAATCTTTGCG CGCAAAGATTGCAGCGCAGACTC 1773 GCTGGGTATAGTTGCCTGGCAATG CATTGCCAGGCAACTATACCCAGC 1774 GCAGGCGTTCCATATTCGCAACCC GGGTTGCGAATATACCCAGC 1775 GCGCCAACTAATACCTCCACCGCG CGCGGTGGAGGTATTAGTTGCGCA 1776 TGGCGTTCAGTATACCTCCACCGCG CGCGGTGGAGGTATTAGTTGCCGC 1777 CAAAACTGACGGGTATTGGAACGCC GCCGGTGGAGGTATTAGTTGCCGC 1778 AGGTGTCGCTGGAACCCGACTTGT AAACCAGCGTTCCATACCCGTCAGTTTTG 1778 AGGTGTCGCTGGAACCCGACTTGT ACACAGCGTTGCACTGAACGCCA 1779 CTTCCAAAAGCGCAATTGGCTTTG CAAAGCCAATTGCGCTTTTGGAAG 1780 TCGGGCTTCTCGCAATTCTGTCAG CTGACAGAATTGCGCTTTTTGGAAG 1781 GCCAAAAGAATGCGCTGGGTAGGT ACCTACCCAGCGCATTCTTTTGGC 1782 TGGTGCCCGCACCGAGAGACTGTA TACACGTCTCTCGGTGCGGCACCAC 1783 CGAGGCCGTAGTGGGGACTGTA TACACGTCTCTCGGTGCGGCACCAC 1784 CGATCTGCGCATAGAGGGGACTGTA TACAGTCTCTCTGGGTGCGGCACCAC 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTTCTCATGCGCAGACCCAC 1786 GATCACCTGGACCGTACCGTTTT AAAACGCACAGGCCCGATTGCACC 1786 GATCACCTGGACCGCTTCCAGAGCC GGCTCTCGAGAAGGCCCGATTGCACA 1787 ATGGGGAGTTAAGGACCCTGCACC 1788 CATTGTGGACAGCCCTTCCACAC 1788 CATTGTGGACAGCCCTTCCACAC 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCCCCAT 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCACAACGACACGGGTGCA 1791 GGACTGGTTCGTTGGTTAGCACA CTTGCTAACCAACGACACGGGTGCA 1792 GGGGATTTCCTTTCGCAGGCTC CAGTGCATTCCCCCAT 1792 GGGACTTCCTTTCGCAGGCTCC TCGGGCAACGCACACCACTCC 1793 CATTGATCATTTTCGCAGGCTCCA TCGAGCCTGCAAAGCACACCACTCCC 1794 AGCAGCGCTGCGTTTTTTCGCAGGCTCCACATGCACACGACACCGGTTACTCACA 1795 CGACCCGTTGCTTTTTCGCAGACCC TCGAACCAATGCACACACCACCACTCCC 1796 CGACCCGTTGCTTTTTTTTTTTTTTTTTTTTTTTTTTTT		1768	CGCCACCGGAAATTGAAAAGACTG	CAGTCTTTTCAATTTCCGGTGGCG
1771 CGAACCAAGCTGCATTGTCAGTGG CCACTGACAATGCAGCTTGGTTCG 1772 GAGTCTGCGCTTGCAATCTTTGCG CGCAAAGATTGCAAGCGCAGACTC 1773 GCTGGGTATAGTTGCCTGGCAATG CATTGCCAGGCAACCTATACCCAGC 1774 GCAGGCGTTCCATATTCGCAACCC GGGTTGCGAATATAGCAACGCCTGC 1775 GCGCCAACTAATACCTCCACCGCG CGCGGTGGAGGTATTAGGAACGCCTGC 1776 TGGCGTTCAGTGCAACGCTGGTTA TAACCAGCGTTGCACTGAACCCCA 1777 CAAAACTGACGGGTATGGGAGCGC GCGCTCCCATACCCGTAAGTTTTG 1778 AGGTGTGCATGGGAACCCGACTTGT ACAAGTCGGGTTCCAGCGAACCCTA 1779 CTTCCAAAAGCGCAATTGGCTTTG CAAAGCCAATTGCGCTTTTGGAAG 1780 TCGGGCTTCTCGCAATTCTGTCAG CTGAACACATTGCGCTTTTGGAAG 1781 GCCAAAAGCAGCACTGTA ACAAGTCGGGTTCCAGCGAACCCGA 1782 TGGTGCCCGCACCGAGAGACTGTA ACCTACCCAGCGCATTCTTTTGGC 1783 CGAGGCCGTAGTGGGGACCTGTA TACAGTCTCTCGGTGCGGGCACCA 1784 CGATCTGCGCATACAGAGGGGACTTT AAAGTCCCCCATACCGGCACCA 1785 TGTGCAATCAGCTTCTCAGAGCC GGCTCTCAAGAGCCCGAATTGCACA 1786 GATCACCTGGACCGCTACCGTTTT AAAGTCCCCCATACGGCCTCC 1787 ATGGGACTTACAGAGGGGACTTT AAAACGGTAGGGCCCAATTGCACA 1788 CATCTGCGCCTTCTCAGAGCC GGTGCAGAGGCCCAATTGCACA 1788 CATCTGGGACCGCTACCGTTTT AAAACGGTAGGGGCCAATGCACA 1788 CATCACCTGGACCGCTACCGTTTT AAAACGGTAGGGGTCCAGGTGATC 1789 CAACCATGCCACGGTAAGATC GGTTCACAACGACAGGGTGATC 1799 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGCACATGTTGGCCAATTGCACAACGACAACGGGTTCCACAAGGAATTCCCCCAT 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGCACCATTGGCTGAACCAACGACAACGGGTTGCACAACCAAC	10	1769	TGAAACGGATGTTGCTTCTTGACG	CGTCAAGAAGCAACATCCGTTTCA
1772 GAGTCTGCGCTTGCAATCTTTGCG CGCAAAGATTGCAAGCGCAGACTC 1773 GCTGGGTATAGTTGCCTGGCAATG CATTGCCAGGCAACTATACCCAGC 1774 GCAGGCGTTCCATATTCGCAACCC GGGTTGCGAATATGGAACGCCTGC 1775 GCGCCAACTAATACCTCCACCGCG CGCGGTGGAGGTATTAGTTGGCGC 1776 TGGCGTTCAGTGCAACGCTGGTTA TAACCAGCGTTGCACTGAACGCCA 1777 CAAAACTGACGGGTATGGGAACGC GCGCTCCCATACCCGTCAGTTTTG 1778 AGGTGTCGCTGGAACCCGACTTGT ACAAGCCAATTGCGCTACAGTTTTG 1779 CTTCCAAAAGCGCAATTTGCTTTTG CAAAGCCAATTGCGCTTTTTGGAC 1779 CTTCCAAAAGCGCAATTTGCTTTTG CAAAGCCAATTGCGCTTTTTGGAC 1780 TCGGGCTTCTCCGCAATTCTGTCAG 1781 GCCAAAAGAATGCGCTGGTAAGGT 1782 TGGTGCCCGCAACGGAGAGGACTGA 1783 CGAGGCCGTAGTGGGGAAGCCCAA 1784 CGATCTGCCGAAATGCGGTAGGT 1785 TGTGCAATCGGCCACGAGAGACTGTA ACAAGTCCCCACTACGGCCTCC 1786 GATCACCTGGACCGCTACCGTTTT AAAGTCCCCTCTATGCCAGAATCG 1787 ATGGGGAGTTAAGGACCCTGCACC 1788 CATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGCATTCCCCAT 1788 CATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAAGAGTGACACA 1789 CCATCACCAGGCCAATGGTGGCT 1789 CCATCACCATGCACGTACCGTTTT AAAACGGTAGCGGTCCACAATG 1790 GCACCCGTTGCTTCAGAGCC 1791 GGAGTGGGTTCCGCAATGGTGGCT 1792 GGGGATTTCCGCAATGAGACCCACCGGTTCCCACCACACGGGTGCTCCACACAGGTGATCG 1792 GGGGATTTCCGCGAATTCACTG 1793 CAATCACTTGCACCACGGTAACACCACCGGTTCCCCACCACCACGGCTCCCACCACCACCACCACCACCACCACCACCACCACCAC		1770	TTGAAGCGGTGAAGAGCCTGTCCT	AGGACAGGCTCTTCACCGCTTCAA
1773 GCTGGGTATAGTTGCCTGGCAATG CATTGCCAGGCAACTATACCCAGGC 1774 GCAGGCGTTCCATATTCGCAACCC GGGTTGCGAATATGGAACGCCTGC 1775 GCGCCAACTAATACCTCCACCGCG CGCGTGCGAGTATAGTTGGCGC 1776 TGGCGTTCAGTGCAACGCTGGTTA TAACCAGCGTTGCACTGAACGCCA 1777 CAAAACTGACGGGTATGGGAGCGC GCGCTCCCATACCCGTCAGTTTTG 1778 AGGTGTCGCTGGAACCCCACTTGT ACAAGTCGGGTTCCAGCGACACCT 1779 CTTCCAAAAGCGCAATTGGCTTTG CAAAGCCAATTGCCGTTTTGGAAC 17780 TCGGGCTTCTCGCAATTCTGTCAG 17781 GCCAAAAGAGCGCAATTGGCTTTG CAAAGCCAATTGCGCTTTTTGGAAC 17782 TGGGCCTCCACCGAGGAGACTCATA TACAGTCTCTCGGAGAAGCCCGA 17813 CGAGGCCGTAGTGGGGAACTCTA TACAGTCTCTCGGTGCGGCACCAC 1782 TGGTGCCCCGCACCGAGAGACTGTA TACAGTCTCTCGGTGCGGGCACCAC 1783 CGAGGCCGTAGTGGGGAACTCTA AAAGTCCCCTCTATGCGCAGAACTCG 1784 CGATCTGCGCATAGAGGGGACTTT AAAGTCCCCTCTATGCGCAGACTCG 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTGAGAAAGGCCGATTGCACACACGAGTGATCG 1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAGGTGATC 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCTAACTCCCCAT 1788 CATTGTGGACAGCCAATGGTGGCT 1789 CCATCACCATGCCACGGTAAGATC 1789 CCATCACCATGCCACGGTAAGATC 1790 GCACCCGTTGTTTGCACAC 1791 GGAGTGGGTTCCGCGAATTCACTC 1792 GGGGATTTCCGCAGATTCACTC 1792 GGGGATTTCCGCGAATTCACTC 1793 CATTGATCATTTGCACCA TGGTGCAACCACCGGTTCCT 1794 AGCAGCGCTGCGCTTGTTTCGGAA 1795 CGAGTAACCACTGGCTTTTTCGGAA 1796 TGGCCTGGAACAATAGGTGGAACTC 1797 CGCACACCAAGCGTTTTTTGCGAA 1798 TCACCTTCACAGGCTTGAACATC GAGTTCCACCATTGTTCCAGGCCA 1799 CCACCACCAAGCGGTTTGTTTCGGAA 1709 TGGCCTGGAACAATAGGTGGAACTC 1790 CCACCACTGGAACAATAGGTGGAACTC 1791 CGCACACCAAGCGGTTTGTTTCCGAA 1792 CGCACACCAAGCGGTTTGTTTCCGAA 1793 CATTGATCACTGGCCACTGTTTTCCACAC 1799 CCACCACTGGAACAATAGGTGGAACTC 1799 CCACCACTGGAACAACACCGCGTTACTCC 1799 CCACACCAAGCGGTTGCTTTTCCGAA 1700 TTGCCAAACCACCGGTTACTCCG 1701 TGGCCTTGGAACCACCGGCTTGCTTTTCCAACACCACCGGCTGCCTGC		1771	CGAACCAAGCTGCATTGTCAGTGG	CCACTGACAATGCAGCTTGGTTCG
1774 GCAGGCGTTCCATATTCGCAACCC GGGTTGCGAATATGGAACGCCTGC 1775 GCGCCAACTAATACCTCCACCGCG CGCGGTGGAGGTATTAGTTGGCGC 1776 TGGCGTTCAGTGCAACGCTGGTTA TAACCAGCGTTGCACTGAACGCCAA 1777 CAAAACTGACGGGTATGGGAGCGC GCGCTCCCATACCCGTCAGTTTTG 1778 AGGTGTCGCTGGAACCCGACTTGT ACAAGTCGGGTTCCAGCGACACCTT 1779 CTTCCAAAAGCGCAATTGGCTTTG CAAAGCCAATTGCGCTTTTGGAAG 1780 TCGGGCTTCTCGCAATTCTGTCAG CTGACAGAATTGCGCTTTTGGAAG 1781 GCCAAAAGAATGCGCTGGGTAGGT ACCTACCCAGCGCACTCTTTTTGGC 1782 TGGTGCCCGCACCGAGAGACTGTA TACAGTCTCTCGGTGCGGGCACCCAATGGCCTAGTTTTTGGC 1783 CGAGGCCGTAGTGGGGACTGCTCT AGAGCAGTCCCCACTACGGCCTCCATACGCCCTCATACGCCCTATAGGCAGACTCGTTCT AGAGCAGTCCCCACTACGGCCTCCACTAGGGCCTTCT AGAGCAGTCCCCACTACGGCCTCCACTAGGCCCTCCACTAGGACCTGCACCAATGGTGGACACCACTGGACACCACTGGACACCACTGGACCACACGAATCGGACCCACTCCACTAGGACACCACTGGACACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACGACACACACACACACACACACACACACACACACACACACAC		1772	GAGTCTGCGCTTGCAATCTTTGCG	CGCAAAGATTGCAAGCGCAGACTC
1775 GCGCCAACTAATACCTCCACCGCG CGCGGTGGAGGTATTAGTTGGCGC 1776 TGGCGTTCAGTGCAACGCTGGTTA TAACCAGCGTTGCACTGAACGCCAA 1777 CAAAACTGACGGGTATGGGAGCGC GCGCTCCCATACCCGTCAGTTTTG 1778 AGGTGTCGCTGGAACCCGACTTGT ACAAGTCGGGTTCCAGCGACACCT 1779 CTTCCAAAAGCGCAATTGGCTTTG CAAAGCCAATTGCGCTTTTGGAAG 1780 TCGGGCTTCTCGCAATTCTGTCAG CTGACAGAATTGCGGTTTTGGAAG 1781 GCCAAAAGAATGCGCTGGGTAGGT ACCTACCCAGCGCATTCTTTTTGGC 1782 TGGTGCCCGCACCGAGAGACTGTA TACAGTCTCTCGGTGCGGGCACCCA 1783 CGAGGCCGTAGTGGGGACTGTC TACAGTCCCCACTACGGCTCCC 1784 CGATCTGCGCATAGAGGGGACTTT AAAGTCCCCTCTATGCGCAGATCG 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTAGCGCAGATCG 1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAGATCG 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCAGATGACACCACTGGACAATGACACCACAATGGTGGCT AGCCACCATTGGCTTAACCCCCAT 1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGCAAATG 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCGTGGCATGGATGG 1790 GCACCCGTGTCGTTTGGTAACCAAG CTTGCTAACCAACGACACGGGTGC 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGAAACCACCGGTTGC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCAAACGAACCACGGGTGC 1793 CATTGATCATGTGCACTAC TGGTGCACAATGACCACCACTCCC 1793 CATTGATCATGTGCACTAC TGGTGCAAACAACGACACGGGTGCT 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAACGACACGCGTTACTCCC 1795 CGAGTAACGCGGTTGCTTTGCGAA TCCGAAACAAACCACCACTCCC 1796 TGGCCTGGAACATAGGTGGAACTC GAGTTCACCTATGTTCCAGGCCA 1797 CGCACACCAAGCGTTTATTTGAGAA TTCTCAATAAACGCTTGGTGTGCG 1798 TCACCTTCACAGTGGGCATACAGC GCTCTATGTCCACCTTGGTTGTTCCAGGCAACAACCACGCGTTACTCGG 1798 TCACCTTCACAGTGGGCATACAGC GCTCTATGTCCACCTTGGTGTGCG 1799 CAAAATATCCCTGAGCCTCCAGGCT AGCTCACAGGGCTCACGGGTAATTTTG		1773	GCTGGGTATAGTTGCCTGGCAATG	CATTGCCAGGCAACTATACCCAGC
1776 TGGCGTTCAGTGCAACGCTGGTTA TAACCAGCGTTGCACTGAACGCCAA 1777 CAAAACTGACGGGTATGGGAGCGC GCGCTCCCATACCCGTCAGTTTTG 1778 AGGTGTCGCTGGAACCCGACTTGT ACAAGTCGGGTTCCAGCGACACCT 1779 CTTCCAAAAGCGCAATTGGCTTTG CAAAGCCAATTGCGCTTTTGGAAG 1780 TCGGGCTTCTCGCAATTCTGTCAG CTGACAGAATTGCGCTTTTGGAAG 1781 GCCAAAAGAATGCGCTGGGTAGGT ACCTACCCAGCGCATTCTTTTGGCC 1782 TGGTGCCCGCACCGAGAGACTGTA TACAGTCTCTCGGTGCGGGCACCCA 1783 CGAGGCCGTAGTGGGGACTGTT ACAGTCTCTCGGTGCGGGCACCCA 1784 CGATCTGCGCATAGAGGGGACTTT AAAGTCCCCTCTATGCGCAGATTCG 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTGAGAAGGCCCGATTGCACCA 1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAGATTGCACA 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCAGATGG 1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGTCCACAATG 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCGTGGCATGGTGATGG 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGC 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGCAACGGGTGCT 1793 CATTGATCATGTGCACTTGCACCA TGGTGCAAAGCAACGGCAGCGCTGCT 1794 AGCAGCGCTGCGCTTTGTTCGCACA TCGAGCCTGCGAAAGCAACGCGCTGCT 1795 CGAGTAACGGGGTTGCTTTGCGCAA TTCGCAAAGCAACGCGCAGCGCTGCT 1796 TGGCCTGGAACATAGGTGGAACTC GAGTTCACCTATGTTCCAGGCCA 1797 CGCACACCAAGGGTTTATTGAGAA TTCTCAATAAACGCTTGCTGTGTGCGCA 1798 TCACCTTCACAGTGGGAACTC GAGTTCACCTATGTTCCAGGCCA 1799 CAAAATATCCCTGAGCCTCCAGGCT AGCTCGTATGCCCACTTGTTCCAGGCCA 1799 CACCCTTCACAGTGGGCATACAGC GCTTGTTACCCCACTTGTTCCACCATTGTTCCAGGCCA 1799 CACCCTTCACAGTGGGCATACAGC GCTTGTTTCAACCACTGGGGTTACTCG 1798 TCACCTTCACAGTGGGCATACAGC GCTTGTTTCAACCACTGGGGATATTTGCACACTTGAACAAGCGCTTGGTGAAGGTAACAGCCCACTTGTTTCAACCAAC	15	1774	GCAGGCGTTCCATATTCGCAACCC	GGGTTGCGAATATGGAACGCCTGC
1777 CAAAACTGACGGGTATGGGAGCGC GCGCTCCCATACCCGTCAGTTTTG 1778 AGGTGTCGCTGGAACCCGACTTGT ACAAGTCGGGTTCCAGCGACACCT 1779 CTTCCAAAAGCGCAATTGGCTTTG CAAAGCCAATTGCGCTTTTGGAAG 1780 TCGGGCTTCTCGCAATTCTGTCAG CTGACAGAATTGCGAGAAGCCCGAA 1781 GCCAAAAGAATGCGCTGGGTAGGT ACCTACCCAGCGCATTCTTTTGGACG 1782 TGGTGCCCGCACCGAGAGACTGTA TACAGTCTCTCGGTGCGGGCACCCAA 1783 CGAGGCCGTAGTGGGGACTGCTCT AGAGCAGTCCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCACTACGGCCTCCCCACTACGGCCTCCCCCACTACGGCCTCCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACGCCCCACTACCCCATACGCCCCCACTACGCCCCCACTACCCCACTACCCCCACTACCCCCACTACCCCCC		1775	GCGCCAACTAATACCTCCACCGCG	CGCGGTGGAGGTATTAGTTGGCGC
1778 AGGTGTCGCTGGAACCCGACTTGT ACAAGTCGGGTTCCAGCGACACCT 1779 CTTCCAAAAGCGCAATTGGCTTTG CAAAGCCAATTGCGCTTTTGGAAG 1780 TCGGGCTTCTCGCAATTCTGTCAG CTGACAGAATTGCGAGAAGCCCGA 1781 GCCAAAAGAATGCGCTGGGTAGGT ACCTACCCAGCGCATTCTTTTGGCC 1782 TGGTGCCCGCACCGAGAGACTGTA TACAGTCTCTCGGTGCGGGCACCA 1783 CGAGGCCGTAGTGGGGACTGCTCT AGAGCAGTCCCCACTACGGCCTCC 1784 CGATCTGCGCATAGAGGGGGACTTT AAAGTCCCCTCTATGCGCAGATCG 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTGAGAAGGCCGATTGCACA 1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAGGTGATC 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCTAACCCCCAT 1788 CATTGTGGACAGCCCAATGGTGGCT AGCCACCATTGGCTGTCCACAATG 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCGTGGCATGGGTGATCG 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGCC 1791 GGAGTGGTTCCGCGAATTCACTG CAGTGAATCCCCATTCCCCATTCCCCATTCCCCATTCCCCATTCCCCATTCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCATTCCCCCC		1776	TGGCGTTCAGTGCAACGCTGGTTA	TAACCAGCGTTGCACTGAACGCCA
20 1779 CTTCCAAAAGCGCAATTGGCTTTG CAAAGCCAATTGCGCTTTTGGAAG 1780 TCGGGCTTCTCGCAATTCTGTCAG CTGACAGAATTGCGAGAAGCCCGA 1781 GCCAAAAGAATGCGCTGGGTAGGT ACCTACCCAGCGCATTCTTTTGGCC 1782 TGGTGCCCGCACCGAGAGACTGTA TACAGTCTCTCGGTGCGGGCACCA 1783 CGAGGCCGTAGTGGGGACTGCTCT AGAGCAGTCCCCACTACGGCCTCC 1784 CGATCTGCGCATAGAGGGGACTTT AAAAGTCCCCTCTATGCGCAGATCG 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTGAGAAGGCCGATTGCACA 1786 GATCACCTGGACCGCTTACCGTTTT AAAACGGTAGCGGTCCAGATCG 1787 ATGGGGAGTTAAGAGCC GGTGCAGGGTCCTCAGAGCC 1788 CATTGTGGACAGCCATGGTGGCT AGCCACCATTGGCTGTCCACAT 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCCCCAT 1790 GCACCCGTTCCTTGGTTAGCAAG CTTGCTAACCACAGGACACGGGTGC 1791 GGAGTGGTTCCGCGAATTCACTG CAGTGAATCCGCGAAACCACCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCAAAGGAAACCCACTCC 1793 CATTGATCATGTCACCA TGGTGAACTCACAGAACAAGGAAATCCCC 1794 AGCAGCGCTGCGTTGTTTCGAACA TCCGAAACAAGCACAGGCTGCT 1795 CGAGTAACGCGGTTGCTTTGCACCA TGGTGCAAACAACCACGCGTTACTCG 1796 TGGCCTGGAACATTACCCG GAGTTCCACCAAACAACAACCGCGTTACTCCG 1797 CGCACACCAACGGTTGCTTTTCGAAA TTCCGAAACAACCGCGTTACTCG 1798 TCACCTTCACAGTGGAACTC GAGTTCCACCATTGTCCAGGCCA 1799 CAAATATCCCTGAGCCTTCAGCCT AGCTCAACAACAACCGTTGCTGTGTGCCA 1799 CAAATATCCCTGAGCCTTCAACCA GCTGTATGCCCACTGTGAAGGTAA		1777	CAAAACTGACGGGTATGGGAGCGC	GCGCTCCCATACCCGTCAGTTTTG
1780 TCGGGCTTCTCGCAATTCTGTCAG CTGACAGAATTGCGAGAAGCCCGA 1781 GCCAAAAGAATGCGCTGGGTAGGT ACCTACCCAGCGCATTCTTTTGGC 1782 TGGTGCCCGCACCGAGAGACTGTA TACAGTCTCTCGGTGCGGGCACCA 1783 CGAGGCCGTAGTGGGGACTGCT AGAGCAGTCCCCACTACGGCCTCC 1784 CGATCTGCGCATAGAGGGGACTTT AAAGTCCCCTCTATGCGCAGATCG 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTGAGAAGGCCGATTGCACA 1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCACAGTTGCACA 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCTTAACTCCCCAT 1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGTCCACAATG 1790 GCACCCGTGCGCACGGTAAGATC GATCTTACCGTGGCATGGTGATGG 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA 1793 CATTGATCATGTGCACCA TGGTGCAAACGAACCACGGTGCT 1794 AGCAGCGCTGCGCTTGTTTCGGAT 1795 CGAGTAACGCGGTTGCTTTGCGAA 1796 TGGCCTGGAACAACAACGCCTTCCGAAACAACAACCGCGTTACTCG 1797 CGCACACCAAGCGTTTATTGAGAA TTCTCCACCACTTGTTCCAGGCCA 1797 CGCACACCAAGCGTTTATTGAGAA TTCTCAATAAACGCTTGGTGCGCAACCAACTGACCACTTCCGGAACCAACGAACAACCACCACTTCCGGAACCAACGAACAACAACGCCACTCCGAACCAACGAACAACAACCACCACTGCCACTCCCACTTTTCCAACCAA		1778	AGGTGTCGCTGGAACCCGACTTGT	ACAAGTCGGGTTCCAGCGACACCT
1781 GCCAAAGAATGCGCTGGGTAGGT 1782 TGGTGCCCGCACCGAGAGACTGTA TACAGTCTCTCGGTGCGGGCACCA 1783 CGAGGCCGTAGTGGGGACTGCTCT AGAGCAGTCCCCACTACGGCCTCC 1784 CGATCTGCGCATAGAGGGGACTTT AAAGTCCCCTCTATGCGCAGATCG 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTGAGAAGGCCGATTGCACA 1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAGGTGATCG 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCTAACTCCCCAT 1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGTCACACAG 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCGTGGCATGGTGATGG 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGC 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCC 1793 CATTGATCATGTGCACTTTCCACCA TGGTGCAAGGAAATCCCC 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCACACGACGCTGCT 1795 CGAGTAACGCGGTTGCTTTGCGAA TTCGCAAACAAGCCACCGCTTCCT 1796 TGGCCTGGAACATAGGTGGAACTC GAGTTCCACCTATGTTCCAGGCCA 1797 CGCACACCAAGCGTTTATTGAGAA TTCTCAATAAACGCTTGGTGTGCG 1798 TCACCTTCACAGTGGGCATACACC GCTGTATGCCCACTTGGTGTGCGCA 1799 CAAATATCCCTGAGCCCTCGAGCT AGCTCACCACTGGAAGGAACTTGCACCACTGGTGAAGGAACACCCCCTTGGTGCGAACAACGCACCACTGGTGGTGCGAACAACAAGCCACCACTGTGAAGGAACAAGCCACCACTGCCACTGCAACCAAC	20	1779	CTTCCAAAAGCGCAATTGGCTTTG	CAAAGCCAATTGCGCTTTTGGAAG
1782 TGGTGCCGCACCGAGAGACTGTA TACAGTCTCTCGGTGCGGGCACCA 1783 CGAGGCCGTAGTGGGGACTGCTCT AGAGCAGTCCCCACTACGGCCTCC 1784 CGATCTGCGCATAGAGGGGACTTT AAAGTCCCTCTATGCGCAGATCG 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTGAGAAGGCCGATTGCACA 1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAGGTGATC 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCAGATTGCACA 1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGTCCACAATG 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCCGTGGCATGGTGATGG 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGC 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAACCCACTCC 1793 CATTGATCATGTGCACTA TGGTGCAAGTGCACATGATCAATG 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGACACGGCTGCT 1795 CGAGTAACGCGGTTGCTTTTCGGAT TTCGCAAAGCAACCACGCGTTACTCG 1796 TGGCCTGGAACATAGGTGGAACTC GAGTTCACCTATGTTCCAGGCCA 1797 CGCACACCAAGCGTTTATTGAGAA TTCTCAATAAACGCTTGGTGTGCG 1798 TCACCTTCACAGTGGGCATACAGC GCTGTATGCCCACTTGTAGCGCA 1799 CAAATATCCCTGAGCCCTCGAGCT AGCTCACCTATGTGCACACGGGTGAACAAGGGCAACGTGGTGAACAAGCAACGCCACTGCACAAGCAACCACCACGACAAGCAACAAGCGCAAGCAA		1780	TCGGGCTTCTCGCAATTCTGTCAG	CTGACAGAATTGCGAGAAGCCCGA
1783 CGAGGCCGTAGTGGGGACTGCTCT AGAGCAGTCCCCACTACGGCCTCG 1784 CGATCTGCGCATAGAGGGGACTTT AAAGTCCCCTCTATGCGCAGATCG 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTGAGAAGGCCGATTGCACA 1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAGGTGATC 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCTAACTCCCCAT 1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGTCCACAATG 1790 GCACCCGTGCGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGTGATCG 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCCC 1793 CATTGATCATGTGCACTA TCGAGCCTGCGAAAGGAAATCCCCC 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC	!	1781	GCCAAAAGAATGCGCTGGGTAGGT	ACCTACCCAGCGCATTCTTTTGGC
25 1784 CGATCTGCGCATAGAGGGGACTTT AAAGTCCCCTCTATGCGCAGATCG 1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTAGAAAGGCCGATTGCACA 1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAGGTGATC 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCTTAACTCCCCAT 1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGTCCACAATG 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCGTGGCATGGTGATGG 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGCC 1791 GGAGTGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCCC 1793 CATTGATCATGTGCACTTTTCGGAT ATCCGAAACAAGCGCAGCGC	!	1782	TGGTGCCCGCACCGAGAGACTGTA	TACAGTCTCTCGGTGCGGGCACCA
1785 TGTGCAATCGGCCTTCTCAGAGCC GGCTCTGAGAAGGCCGATTGCACA 1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAGGTGATC 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCTTAACTCCCCAT 1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGTCCACAATG 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCGTGGCATGGTGATGG 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGC 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCC 1793 CATTGATCATGTGCACTA TGGTGCACAGTGCACATGATCAATG 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC		1783	CGAGGCCGTAGTGGGGACTGCTCT	AGAGCAGTCCCCACTACGGCCTCG
1786 GATCACCTGGACCGCTACCGTTTT AAAACGGTAGCGGTCCAGGTGATC 1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCTTAACTCCCCAT 1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGTCCACAATG 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCGTGGCATGGTGATGG 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGC 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCC 1793 CATTGATCATGTGCACTA TCGAGCCTGCGAAAGGAAATCCCC 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC	25	1784	CGATCTGCGCATAGAGGGGACTTT	AAAGTCCCCTCTATGCGCAGATCG
1787 ATGGGGAGTTAAGGACCCTGCACC GGTGCAGGGTCCTTAACTCCCCAT 1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGTCCACAATG 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCGTGGCATGGTGATGG 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGC 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCC 1793 CATTGATCATGTGCACTTGCACCA TGGTGCAAGTGCACATGATCAATG 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC		1785	TGTGCAATCGGCCTTCTCAGAGCC	GGCTCTGAGAAGGCCGATTGCACA
1788 CATTGTGGACAGCCAATGGTGGCT AGCCACCATTGGCTGTCCACAATG 1789 CCATCACCATGCCACGGTAAGATC GATCTTACCGTGGCATGGTGATGG 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGC 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCC 1793 CATTGATCATGTGCACTTGCACCA TGGTGCAAGTGCACATGATCAATG 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC		1786	GATCACCTGGACCGCTACCGTTTT	AAAACGGTAGCGGTCCAGGTGATC
1789 CCATCACCATGCCACGGTAAGATC GATCTTACCGTGGCATGGTGATGG 1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGC 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCC 1793 CATTGATCATGTGCACTTGCACCA TGGTGCAAGTGCACATGATCAATG 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC		1787	ATGGGGAGTTAAGGACCCTGCACC	GGTGCAGGGTCCTTAACTCCCCAT
1790 GCACCCGTGTCGTTGGTTAGCAAG CTTGCTAACCAACGACACGGGTGC 1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCC 1793 CATTGATCATGTGCACTA TGGTGCAAGTGCACATGATCAATG 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC		1788	CATTGTGGACAGCCAATGGTGGCT	AGCCACCATTGGCTGTCCACAATG
1791 GGAGTGGGTTCCGCGAATTCACTG CAGTGAATTCGCGGAACCCACTCC 1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCC 1793 CATTGATCATGTGCACTA TGGTGCAAGTGCACATGATCAATG 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC	30	1789	CCATCACCATGCCACGGTAAGATC	GATCTTACCGTGGCATGGTGATGG
1792 GGGGATTTCCTTTCGCAGGCTCGA TCGAGCCTGCGAAAGGAAATCCCCC 1793 CATTGATCATGTGCACTTGCACCA TGGTGCAAGTGCACATGATCAATG 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC		1790	GCACCCGTGTCGTTGGTTAGCAAG	CTTGCTAACCAACGACACGGGTGC
1793 CATTGATCATGTGCACTTGCACCA TGGTGCAAGTGCACATGATCAATG 1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC		1791	GGAGTGGGTTCCGCGAATTCACTG	CAGTGAATTCGCGGAACCCACTCC
1794 AGCAGCGCTGCGCTTGTTTCGGAT ATCCGAAACAAGCGCAGCGC		1792	GGGGATTTCCTTTCGCAGGCTCGA	TCGAGCCTGCGAAAGGAAATCCCC
1795 CGAGTAACGCGGTTGCTTTGCGAA TTCGCAAAGCAACCGCGTTACTCG 1796 TGGCCTGGAACATAGGTGGAACTC GAGTTCCACCTATGTTCCAGGCCA 1797 CGCACACCAAGCGTTTATTGAGAA TTCTCAATAAACGCTTGGTGTGCG 1798 TCACCTTCACAGTGGGCATACAGC GCTGTATGCCCACTGTGAAGGTGA 40 1799 CAAATATCCCTGAGCCCTCGAGCT AGCTCGAGGGCTCAGGGATATTTG		1793	CATTGATCATGTGCACTTGCACCA	TGGTGCAAGTGCACATGATCAATG
1796 TGGCCTGGAACATAGGTGGAACTC GAGTTCCACCTATGTTCCAGGCCA 1797 CGCACACCAAGCGTTTATTGAGAA TTCTCAATAAACGCTTGGTGTGCG 1798 TCACCTTCACAGTGGGCATACAGC GCTGTATGCCCACTGTGAAGGTGA 40 1799 CAAATATCCCTGAGCCCTCGAGCT AGCTCGAGGGCTCAGGGATATTTG	35	1794	AGCAGCGCTGCGCTTGTTTCGGAT	ATCCGAAACAAGCGCAGCGCTGCT
1797 CGCACACCAAGCGTTTATTGAGAA TTCTCAATAAACGCTTGGTGTGCG 1798 TCACCTTCACAGTGGGCATACAGC GCTGTATGCCCACTGTGAAGGTGA 40 1799 CAAATATCCCTGAGCCCTCGAGCT AGCTCGAGGGCTCAGGGATATTTG		1795	CGAGTAACGCGGTTGCTTTGCGAA	TTCGCAAAGCAACCGCGTTACTCG
1798 TCACCTTCACAGTGGGCATACAGC GCTGTATGCCCACTGTGAAGGTGA 40 1799 CAAATATCCCTGAGCCCTCGAGCT AGCTCGAGGGCTCAGGGATATTTG		1796	TGGCCTGGAACATAGGTGGAACTC	GAGTTCCACCTATGTTCCAGGCCA
40 1799 CAAATATCCCTGAGCCCTCGAGCT AGCTCGAGGGCTCAGGGATATTTG		1797	CGCACACCAAGCGTTTATTGAGAA	
		1798	TCACCTTCACAGTGGGCATACAGC	GCTGTATGCCCACTGTGAAGGTGA
	40	1799	CAAATATCCCTGAGCCCTCGAGCT	AGCTCGAGGGCTCAGGGATATTTG
1800 GGGAGCTGGTGAGCAGATGTAACG CGTTACATCTGCTCACCAGCTCCC		1800	GGGAGCTGGTGAGCAGATGTAACG	CGTTACATCTGCTCACCAGCTCCC

	1801	AGGATTGCTTTTGCGTTATGCGGA	TCCGCATAACGCAAAAGCAATCCT
	1802	ATCGTTTGGGCGCTACGCAATTGT	ACAATTGCGTAGCGCCCAAACGAT
	1803	CCGATTTGTCCCAAATGCAACGTT	AACGTTGCATTTGGGACAAATCGG
	1804	AAGGGTCAAGCTCATGGAGCGGAA	TTCCGCTCCATGAGCTTGACCCTT
5	1805	TCTGACGTCGTTCAAGGGCTCGCT	AGCGAGCCCTTGAACGACGTCAGA
	1806	CGCACCACTCCGAGGTATTTGTCT	AGACAAATACCTCGGAGTGGTGCG
:	1807	AAGGGGTGAAAAAGGAGAAGCCGA	TCGGCTTCTCCTTTTTCACCCCTT
	1808	AAACCACGCAAATGGCGATACCAT	ATGGTATCGCCATTTGCGTGGTTT
	1809	CAGAAGGGATGACGCCTTAAGTCG	CGACTTAAGGCGTCATCCCTTCTG
10	1810	CATGACGAGAGCGGACCTGAAGTG	CACTTCAGGTCCGCTCTCGTCATG
	1811	CTGGACATGTTTGTTTCGCCACTG	CAGTGGCGAAACAAACATGTCCAG
	1812	AAGACCGACTCTCGTCGTTTGCAC	GTGCAAACGACGAGAGTCGGTCTT
	1813	GCGCGATTACATACCGTTTCCGTA	TACGGAAACGGTATGTAATCGCGC
	1814	CACTGACCGGACCCAACCTAACAT	ATGTTAGGTTGGGTCCGGTCAGTG
15	1815	AGTGCAAGTCTAGACACGCCCGAG	CTCGGGCGTGTCTAGACTTGCACT
	1816	GGTTGGTGCGAGATCCTGGACTGT	ACAGTCCAGGATCTCGCACCAACC
	1817	GGTCGTCCCGAAACGTAAACGAGG	CCTCGTTTACGTTTCGGGACGACC
	1818	GACTAGTACGATCACGGGGCGGGT	ACCCGCCCGTGATCGTACTAGTC
'	1819	CCGACCTGACCCTGTGTACAGGTT	AACCTGTACACAGGGTCAGGTCGG
20	1820	TGCTCACTGCCCACACTGTTATGG	CCATAACAGTGTGGGCAGTGAGCA
	1821	CGAGGAAACACATTTCTTCGGGCC	GGCCCGAAGAAATGTGTTTCCTCG
	1822	TGGCACCGGGTGGATTCTTGTCTA	TAGACAAGAATCCACCCGGTGCCA
	1823	GAGGCACGGTGATAGTGGTTGTGC	GCACAACCACTATCACCGTGCCTC
	1824	ATGCAGATGGATCTTTTTCGACGC	GCGTCGAAAAAGATCCATCTGCAT
25	1825	TGCGATAGCCAAAGAGTCGAGGAC	GTCCTCGACTCTTTGGCTATCGCA
	1826	ATGGCGTGTCAGCGAACTGCCTGG	CCAGGCAGTTCGCTGACACGCCAT
	1827	CAATGCAGCTCGGAAGTCAGGTCG	CGACCTGACTTCCGAGCTGCATTG
	1828	AGGATCAGTGCACATGTCCCCTCA	TGAGGGGACATGTGCACTGATCCT
	1829	CACATCTTGGCTGTCACCCGAGAA	TTCTCGGGTGACAGCCAAGATGTG
30	1830	CGCATTATCACCTCAATGCCAGTG	CACTGGCATTGAGGTGATAATGCG
	1831	ACATCCGCAGACTCCCTATAGCCC	GGGCTATAGGGAGTCTGCGGATGT
	1832	GTGAACCGAACGAGGGGAGTCTC	GAGACTCCCCTCGTTCGGGTTCAC
	1833	GCGTAGGGAATTTGCCTCACGACT	AGTCGTGAGGCAAATTCCCTACGC
	1834	TTTACGCGTCGCTCGGTTGTAGTG	CACTACAACCGAGCGACGCGTAAA
35	1835	GAGAGGCGTCTAGGCGGTTCTAGC	GCTAGAACCGCCTAGACGCCTCTC
	1836	GCATGCTGATAACGAATGCTTCCC	GGGAAGCATTCGTTATCAGCATGC
	1837	CTGAAGCTCGTGTGCGATGAGGGA	TCCCTCATCGCACACGAGCTTCAG
	1838	ACAACGCATGAGGAGGCTTTTTC	GAAAAAGCCTCCTCATGCCGTTGT
	1839	TTTGGAGACGCCAGTACGCGTGGT	ACCACGCGTACTGGCGTCTCCAAA
40	1840	GCTATCATTTGGTGTAAGCCCGCC	GGCGGCTTACACCAAATGATAGC
	1841	TCAACATCCAGGGCGGTGCTTGGT	ACCAAGCACCGCCCTGGATGTTGA

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	1842	TTCGATGTAATCCCCAAAGATGCC	GGCATCTTTGGGGATTACATCGAA
	1843	GGACCTTCGGCAGGTTATCGCCGT	ACGGCGATAACCTGCCGAAGGTCC
	1844	AGTAAGAAGAGGCAGGCCCACCT	AGGTGGGCCTGCCTCTTCTTACT
	1845	AACGGCTCCCCGTCGTACTGCTTA	TAAGCAGTACGACGGGGAGCCGTT
5	1846	CCTATACCGTCGTGGTTCCACGTT	AACGTGGAACCACGACGGTATAGG
	1847	CCGCGCAGGCGCTAATACTCAAGG	CCTTGAGTATTAGCGCCTGCGCGG
	1848	AAATGGGCCAGTGAAATCCTTGGT	ACCAAGGATTTCACTGGCCCATTT
•	1849	ACGGTTTCGAATACTGCTGGGCAG	CTGCCCAGCAGTATTCGAAACCGT
	1850	CCGCTTGAGGTTCAGGTCAGAGCT	AGCTCTGACCTGAACCTCAAGCGG
10	1851	ATCGTGCCCGAAGACACTTAAACG	CGTTTAAGTGTCTTCGGGCACGAT
	1852	ACCTGAACCAGGGCGATTGCTTTA	TAAAGCAATCGCCCTGGTTCAGGT
	1853	ACCCTATACGCTGGGCTAAGCGGG	CCCGCTTAGCCCAGCGTATAGGGT
	1854	TGTTTCGCGACTAGAAGCCTTTGC	GCAAAGGCTTCTAGTCGCGAAACA
	1855	GAAGTTGGCGGCTCACCCGTATTA	TAATACGGGTGAGCCGCCAACTTC
15	1856	TGGCTACACCGCTTAGGAGGAACC	GGTTCCTCCTAAGCGGTGTAGCCA
	1857	CCACAGTTGCGTGACTTACATCGC	GCGATGTAAGTCACGCAACTGTGG
	1858	ACTGCCACTGCGTCTGAAGAGTGG	CCACTCTTCAGACGCAGTGGCAGT
	1859	GCGCCAGCAAATTTCGTGTGGTGT	ACACCACACGAAATTTGCTGGCGC
	1860	TGCCTCCGTCGAGCCGAATAGCCA	TGGCTATTCGGCTCGACGGAGGCA
20	1861	GTACAAACGGGCGCTATTTCGTCC	GGACGAAATAGCGCCCGTTTGTAC
	1862	GCTTCCCTGGCTCTGAACGGAAAC	GTTTCCGTTCAGAGCCAGGGAAGC
	1863	CGGCTACCCAGGCAGATAAGCTGA	TCAGCTTATCTGCCTGGGTAGCCG
	1864	GGTTGGACCCGACAGGGAATTTCC	GGAAATTCCCTGTCGGGTCCAACC
	1865	GGGGAATACCCGGCGTTTGTAATA	TATTACAAACGCCGGGTATTCCCC
25	1866	TGGTTCGGTGAGGTTATGTTCGGT	ACCGAACATAACCTCACCGAACCA
	1867	TCGGTAGGGTTCAGTCGCTGAGGA	TCCTCAGCGACTGAACCCTACCGA
	1868	TTCGGAGTGTGCCGGTGCTAGTAC	GTACTAGCACCGGCACACTCCGAA
	1869	TCGTACTGGAATGATGGCCGGGCC	GGCCCGGCCATCATTCCAGTACGA
	1870	TCCGTCGACCGTCCAGCGAAGTTT	AAACTTCGCTGGACGGTCGACGGA
30	1871	AGGGAATATAACAACACCGCGCAC	GTGCGCGGTGTTGTTATATTCCCT
	1872	ATGTCCCGGAAACCAGCTACCTCA	TGAGGTAGCTGGTTTCCGGGACAT
	1873	ACCAGCGACTTAGATAGCCGTCCG	CGGACGCTATCTAAGTCGCTGGT
	1874	GGAAAACCTCCTTTGCGTCAACCA	TGGTTGACGCAAAGGAGGTTTTCC
	1875	ACGTGCGTGCATACCCAAGAGGAC	GTCCTCTTGGGTATGCACGCACGT
35	1876	ACGCCACTTTCCCTAGAACCAACG	CGTTGGTTCTAGGGAAAGTGGCGT
	1877	CGAAGTACGCAATAGTGCCACCCT	AGGGTGGCACTATTGCGTACTTCG
	1878	GATCCCGGCGGATCACCTATCAAT	ATTGATAGGTGATCCGCCGGGATC
	1879	AGAAAGCGACCGTTTCAGGCTAGC	GCTAGCCTGAAACGGTCGCTTTCT
	1880	CGCTCCCTTTCATAGTCCTCTCCG	CGGAGAGGACTATGAAAGGGAGCG
40	1881	GTGGGTGGTCATAACGACAGCAGA	TCTGCTGTCGTTATGACCACCCAC
	1882	CTGGAGGCTGCATCGTTCGTAACA	TGTTACGAACGATGCAGCCTCCAG

1883 CACCATGAGTTTCGGAGCGAGGAT ATCCTCGCTCCGAAACT 1884 CAAGCTGCGTTCGATGAGAGATTG CAATCTCTCATCGAACG 1885 CCTGGGAGCAATGACCGCTCTGGT ACCAGAGCGGTCATTGG 1886 TCCGGCGCTCTACCAAGATGAGAC GTCTCATCTTGGTAGAG 5 1887 CGACCGCGTCGCGTATACTATCCG CGGATAGTATACGCGAC 1888 AACATTCGCTAGTGGGGTCCAACA TGTTGGACCCCACTAGC 1889 TGTATGATCATCCGACCGAGCAGC GCTGCTCGGTCGGATGA	CAGCTTG CTCCCAGG CCGCCGGA
1885 CCTGGGAGCAATGACCGCTCTGGT ACCAGAGCGGTCATTGC 1886 TCCGGCGCTCTACCAAGATGAGAC GTCTCATCTTGGTAGAG 5 1887 CGACCGCGTCGCGTATACTATCCG CGGATAGTATACGCGAC 1888 AACATTCGCTAGTGGGGTCCAACA TGTTGGACCCCACTAGC	CTCCCAGG CCCCGGA
1886 TCCGGCGCTCTACCAAGATGAGAC GTCTCATCTTGGTAGAG 5 1887 CGACCGCGTCGCGTATACTATCCG CGGATAGTATACGCGAC 1888 AACATTCGCTAGTGGGGTCCAACA TGTTGGACCCCACTAGC	CGCCGGA
5 1887 CGACCGCGTCGCGTATACTATCCG CGGATAGTATACGCGAC 1888 AACATTCGCTAGTGGGGTCCAACA TGTTGGACCCCACTAGC	
1888 AACATTCGCTAGTGGGGTCCAACA TGTTGGACCCCACTAGC	CCCCTCC
	20000100
1889 TGTATGATCATCCGACCGAGCAGC GCTGCTCGGTCGGATG	CGAATGTT
	ATCATACA
1890 AGTGCGCCGAGAGGGTGAATAGAC GTCTATTCACCCTCTCG	GCGCACT
1891 AGGCTTGTTCTGGACCAGCACCAT ATGGTGCTGGTCCAGAA	ACAAGCCT
10 1892 GGGGCCACATAAAGAATTCCGAAC GTTCGGAATTCTTTATG	TGGCCCC
1893 TGGTGAAGATAAATCCGCATGGCA TGCCATGCGGATTTATC	TTCACCA
1894 ATTTCCACCACGCTCTTGCCAAAT ATTTGGCAAGAGCGTGG	STGGAAAT
1895 CGCGTAAAGCTGTCACCGATGACC GGTCATCGGTGACAGC	TTTACGCG
1896 TCCCCAACCGGTAACAACAGCGAC GTCGCTGTTGTTACCGG	STTGGGGA
15 1897 CCTCTGCTCGCCTTACACCCATGG CCATGGGTGTAAGGCG	AGCAGAGG
1898 CAAGCTGCTCCTGTGCTGAAGGGC GCCCTTCAGCACAGGAC	GCAGCTTG
1899 AAACGAACGATGGTCGGTAGACCG CGGTCTACCGACCATCC	STTCGTTT
1900 TCAGTTCGATGGCTATTGCGCCTC GAGGCGCAATAGCCATG	CGAACTGA
1901 GGCTCTCAACGGACGCAAATCATA TATGATTTGCGTCCGTT	GAGAGCC
20 1902 AGTAGAGTGTTGCGGCTGCCGATC GATCGGCAGCCGCAAC	ACTCTACT
1903 AGACACTAGACCGCCGTGACCTGA TCAGGTCACGGCGGTC	TAGTGTCT
1904 ACCGAGCACCGAATTTCCTTGTCC GGACAAGGAAATTCGG	TGCTCGGT
1905 CCGTGGCCAAGATACGAACGAATT AATTCGTTCGTATCTTG	GCCACGG
1906 CCTCCTACAGCATCCACATGAGGG CCCTCATGTGGATGCTG	STAGGAGG
25 1907 CACTCGGCAAATACGTATGCGCAT ATGCGCATACGTATTTG	CCGAGTG
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1909 GACCACCTCGGAAGATCGTTCTGC GCAGAACGATCTTCCGA	AGGTGGTC
1910 TCAACTGGGCAAACGAAGAGCACA TGTGCTCTTCGTTTGCC	CAGTTGA
1911 GCTTAGCCTCACACGTGCATACCA TGGTATGCACGTGTGAG	GCTAAGC
30 1912 CTGCGGTCTCCAAGTACCATTTCG CGAAATGGTACTTGGAG	SACCGCAG
1913 GTTCCGTATTACGGCGGCCATAAG CTTATGGCCGCCGTAAT	TACGGAAC
1914 ATCGACGCAACCGGATAGTCTCTG CAGAGACTATCCGGTTG	CGTCGAT
1915 CGCAGATAAACCGGCATCTTTCAG CTGAAAGATGCCGGTTT	TATCTGCG
1916 ACCTGCCAATACGGGTCTACGGTT AACCGTAGACCCGTATT	GGCAGGT
35 1917 ACACCTGTTGCCATGCTGATCCGT ACGGATCAGCATGGCA	ACAGGTGT
1918 AAACTGTCTACTGCGCAATTCCGC GCGGAATTGCGCAGTAC	GACAGTTT
1919 GCAACTAGCCCGTGCTAGGATCGT ACGATCCTAGCACGGG	CTAGTTGC
. 1920 TCGTAGTGGTGGATTGTTGTGCGT ACGCACAACAATCCACC	CACTACGA
1921 GGCTTACTCCTCAATTGCGACACG CGTGTCGCAATTGAGGA	AGTAAGCC
40 1922 CACGACTCCCTGCCAGATTTGATT AATCAAATCTGGCAGGG	SAGTCGTG
1923 CTTAGACGTCGGCAATGTCACGTC GACGTGACATTGCCGAC	CGTCTAAG

	1924	CTCAGAGCACAATCTGCCCTGCCT	AGGCAGGCAGATTGTGCTCTGAG
	1925	GCTAGGAAAGTCGGCATTCATGGG	CCCATGAATGCCGACTTTCCTAGC
	1926	AAAGCCCCAAAATTCCGCCTAACC	GGTTAGGCGGAATTTTGGGGCTTT
	1927	GCGCAACGCTAAGGGACTATCAAG	CTTGATAGTCCCTTAGCGTTGCGC
5	1928	CGTCCGCTGGGATGAGTCTCCTGC	GCAGGAGACTCATCCCAGCGGACG
	1929	ACAGGCCTCGTGATTGGTGTGGGT	ACCCACACCAATCACGAGGCCTGT
	1930	CATTCTCCTTCCGGGACCACGCCT	AGGCGTGGTCCCGGAAGGAGAATG
	1931	TCGGAGTTGACCAAGCTCAGTGCG	CGCACTGAGCTTGGTCAACTCCGA
	1932	ACGCGCCACTGCAATTGCAAACAC	GTGTTTGCAATTGCAGTGGCGCGT
10	1933	AGTTCATGGAGCCGGCGTATTGTT	AACAATACGCCGGCTCCATGAACT
	1934	ACGTTTAATGCGGGGCCCGCCTAC	GTAGGCGGCCCCGCATTAAACGT
	1935	TGAGGCTTTAGCCTACGCGCAGGT	ACCTGCGCGTAGGCTAAAGCCTCA
	1936	CAGCGTTATGAGCGCGGAGTTTAT	ATAAACTCCGCGCTCATAACGCTG
	1937	GTCCACGTGACCACGGATAGTTGG	CCAACTATCCGTGGTCACGTGGAC
15	1938	GATTATGCTCCTACGCCTGCTCCG	CGGAGCAGGCGTAGGAGCATAATC
	1939	TCGTCAAGGGCATGATGTGTGGGA	TCCCACACATCATGCCCTTGACGA
	1940	GATGGACCGCCAAAGACACCTTGA	TCAAGGTGTCTTTGGCGGTCCATC
	1941	TACACGAGGATGGGGTCAAGCTTT	AAAGCTTGACCCCATCCTCGTGTA
	1942	ACACGCACAAAACGTTTGAAAGGC	GCCTTTCAAACGTTTTGTGCGTGT
20	1943	GTTATCGTGGGCCGATGGTACTGA	TCAGTACCATCGGCCCACGATAAC
	1944	ACATGACCGTATCCGCCTGCTTCG	CGAAGCAGGCGGATACGGTCATGT
	1945	GAAGGCGAACCACTGAAACTACGC	GCGTAGTTTCAGTGGTTCGCCTTC
	1946	TGACTTTTGCAACGGGTGGAACCA	TGGTTCCACCCGTTGCAAAAGTCA
	1947	TGAATTCGTAGGTTTTGGGTGCGG	CCGCACCCAAAACCTACGAATTCA
25	1948	AGCATTTATGAAGCGGCCATTGCG	CGCAATGGCCGCTTCATAAATGCT
	1949	TGCTCCTCGCGTTGGTACCGTGAG	CTCACGGTACCAACGCGAGGAGCA
	1950	CGCAGCAAGAAACAGCAACTGTTG	CAACAGTTGCTGTTTCTTGCTGCG
	1951	AGACGCTTGGAGTGAAAACTCGGA	TCCGAGTTTTCACTCCAAGCGTCT
	1952	CATTCGTAGAATGCCCCAAATGGA	TCCATTTGGGGCATTCTACGAATG
30	1953	CCAGAAGGTTCGGGACCCGTCGTG	CACGACGGGTCCCGAACCTTCTGG
	1954	GAGAAGCCGGTTCTCAGAGCACAT	ATGTGCTCTGAGAACCGGCTTCTC
	1955	TTGCGTTGCAAGATATCTGGCCCG	CGGGCCAGATATCTTGCAACGCAA
	1956	GGGTTGCATGTTCAGGCAAGACGA	TCGTCTTGCCTGAACATGCAACCC
	1957	CTCACGAAGGTGACATATCACGCC	GGCGTGATATGTCACCTTCGTGAG
35	1958	GCCCGAGATACGGGTTCAAAAAGA	TCTTTTTGAACCCGTATCTCGGGC
	1959	CATCTTCGCGCTTCTTCACTCCGC	GCGGAGTGAAGAGCGCGAAGATG
	1960	TTACACGGTAAGCGTACGGCCGCC	GGCGGCCGTACGCTTACCGTGTAA
	1961	ACCTTCGGACAATGTGGCGTTCGC	GCGAACGCCACATTGTCCGAAGGT
	1962	TGAATGGTTCTGCTAGGCCCACAC	GTGTGGGCCTAGCAGAACCATTCA
40	1963	CACGCCTGTCTGACATATGGATGC	GCATCCATATGTCAGACAGGCGTG
	1964	CGCCTCAACCCAATCTGAGAACGT	ACGTTCTCAGATTGGGTTGAGGCG

	1965	TTACGCTTACTGCGAGCTGGGTCC	GGACCCAGCTCGCAGTAAGCGTAA
	1966	GGCTTGTGGGGCAATACGCATCTT	AAGATGCGTATTGCCCCACAAGCC
	1967	CACTCTCCTTTGGATGCGGAACAA	TTGTTCCGCATCCAAAGGAGAGTG
	1968	GACCAGCCATCACGTAACGGCCCT	AGGGCCGTTACGTGATGGCTGGTC
5	1969	AGGAACCGGATGTGGTTATGGAGC	GCTCCATAACCACATCCGGTTCCT
	1970	ATCCATGGGCAACTGAGCCTATGC	GCATAGGCTCAGTTGCCCATGGAT
	1971	GGAACAGCACTTGTTACCGCCCAC	GTGGGCGGTAACAAGTGCTGTTCC
	1972	TGGCTCGCTTCAAGCCTGTTTGCT	AGCAAACAGGCTTGAAGCGAGCCA
	1973	CAAACGTGAGGTCATGACCACCAT	ATGGTGGTCATGACCTCACGTTTG
10	1974	ACCGATGTCTTGAAGTCCGGAGGT	ACCTCCGGACTTCAAGACATCGGT
	1975	CGAAAATGCATGATGATCTCCCCT	AGGGGAGATCATCATGCATTTTCG
	1976	TTTGGTATTCTCGCTGCACCGTTG	CAACGGTGCAGCGAGAATACCAAA
	1977	GCGTACTCAACCACATTCCCGACC	GGTCGGGAATGTGGTTGAGTACGC
	1978	AGCAAACAACAGCGGTCCGAGCAT	ATGCTCGGACCGCTGTTGTTTGCT
15	1979	GGACTAGGAGCGGGGATAGCTGAG	CTCAGCTATCCCCGCTCCTAGTCC
	1980	CCTTAACGAAAACCTGTCGACCGC	GCGGTCGACAGGTTTTCGTTAAGG
	1981	CTCGATCGCATAAGCAAGAAACCG	CGGTTTCTTGCTTATGCGATCGAG
	1982	CCCGTTGTTTGGGCGACAAAAGT	ACTITITGTCGCCCAAACAACGGG
	1983	CGGCGGCTCTCGCATGATCTCGTT	AACGAGATCATGCGAGAGCCGCCG
20	1984	CGGATGGAGAGGAGTCTACGTCCC	GGGACGTAGACTCCTCTCCATCCG
	1985	CAGAACAATATCGTGCGTCAACCG	CGGTTGACGCACGATATTGTTCTG
	1986	CCTTTGCGCGCTCCGAGTAAGGTA	TACCTTACTCGGAGCGCGCAAAGG
	1987	GGAAACGGCACCTATCTGTCGTGA	TCACGACAGATAGGTGCCGTTTCC
	1988	CGACCGACAAAACCAAATGCCGCC	GGCGGCATTTGGTTTTGTCGGTCG
25	1989	CCAAGGGTGTGGGAGCTGAAGAGA	TCTCTTCAGCTCCCACACCCTTGG
	1990	TTAAGTGCGCATAGTCCTCGTGGG	CCCACGAGGACTATGCGCACTTAA
	1991	GCCTGGTGGGGTAAGTCATGATGC	GCATCATGACTTACCCCACCAGGC
	1992	GAGCAGCAGATTGATGCGCTTATG	CATAAGCGCATCAATCTGCTGCTC
	1993	TGCGCCAACTTCCGGAATATTTGC	GCAAATATTCCGGAAGTTGGCGCA
30	1994	AACCCCATCATGAAATGCTCTCCG	CGGAGAGCATTTCATGATGGGGTT
	1995	GTCCAACGGTACTGGCGTGATGTT	AACATCACGCCAGTACCGTTGGAC
	1996	ACTCGGCTGATCGTGAGATGGTGA	TCACCATCTCACGATCAGCCGAGT
	1997	ATTCGTGGGCGCATCTCGGAATGT	ACATTCCGAGATGCGCCCACGAAT
	1998	TCCCGTCCTGTAATCCAGGGAACA	TGTTCCCTGGATTACAGGACGGGA
35	1999	CTTCGCTGCACCTACATTGCGCCA	TGGCGCAATGTAGGTGCAGCGAAG
	2000	GCGTGTAGATGACTGTGCTTTGGG	CCCAAAGCACAGTCATCTACACGC
	2001	CTATGGTATCGAGACATCGGCGGA	TCCGCCGATGTCTCGATACCATAG
	2002	CCTCGTACTCCGTCGTATGCACAA	TTGTGCATACGACGGAGTACGAGG
	2003	TGGTGCGTCCGTAGTGCCTGCACT	AGTGCAGGCACTACGGACGCACCA
40	2004	CGCGATCCTAGTTGAAAGCTTTGC	GCAAAGCTTTCAACTAGGATCGCG
	2005	ACGATCCAGGTGTTGGGCACTAAG	CTTAGTGCCCAACACCTGGATCGT

2006   CCAATCTAGGATACACCACGCCCG   CGGGCCGGTATTATCCCCACGTTATC				<del></del>
2008   CATGGAACAACCGTCGTAGGGGA   TCCCCTACGACGGTTTGTTCCATG   2009   ACACTCGCGCAGTATTCGAGTCGT   ACGACTCGAATACTGCGCGAGAGTGT   2010   CTCAGTCTCGAAGGTGATCCGACC   GGTCGGATACCTCGAGACTGAG   2011   TCCCAATCCCCGTGGTATCGTCGT   ACGACGATACCACGGGGATTGGGA   2011   TCCCAATCCCCGTGGTATCGTCGT   ACGACGATACCACGGGGATTGGGA   2012   AATCAACGTAGTTCGAGTGTCGT   ACGACGATACCACGGGGATTGGGA   2014   CTACCGCTGCATGGGGTTGGGCT   ACGCCAAACCCCTGGGTTGTAAGT   2013   CTTAACACCCAGGGGTTTGGGT   ACGCCAAACCCCTGGGTGTTAAGT   2014   CTACCGCTGCATGGCGTTAGATTG   CAATCTAACGCCATGCAGCGGTAG   TTATTGGTGGCGGACGACGAGTAGAT   ACCACCACCCACAATAA   2015   TTATTGGTGGCGGACGGATGAGT   ACACCACCACCACCAATAA   2016   TTAAGGGTGAACCACCGCGTGA   TCACGCGGTTGAGTTCACCCTTAA   2017   TTTGATTGAACCGCTGGCACCATCA   GTAGTGCCGACCACCAATAA   2018   TCATGTTGAGGCCGACCCTCAT   GTAGTGCCACCACCACACAC   2019   CTCCGAACCTTCTGGGCCTGTAT   AAAGAGGCCCACAAGGTTCCAACAC   2019   CTCCGAACCTTCTGGGCCTGTTT   AAAGAGGCCCACAAGGTTCCGAACCACCACCACCACCACCACCACCACCACCACCACC		2006	CCAATCTAGGATACACCACGCCCG	CGGGCGTGGTGTATCCTAGATTGG
2009   ACACTCGCGCAGTATTCGAGTCGT   ACGACTCGAATACTGCGCGAGTGT		2007	GATACGTGGGGTATAGGCGGGCCC	GGGCCCGCCTATACCCCACGTATC
5         2010         CTCAGTCTCGAAGGTGATCCGACC         GGTCGGATCACCTTCGAGACTGAG           2011         TCCCAATCCCCGTGGTATCGTCGT         ACGACGATACCACGGGGATTGGGA           2012         AATCAACGTGGTTTCCGGTGGTCCG         CGGACCACCGGAACTACGTTGATT           2013         CTTAACACCCAGGGGTTTGGGCT         AGCCCACACCCTGGGTTGTATA           2014         CTACCGCTGCATGGCGTTAGATTG         CAATCTAACGCCATGCAGCGGTAG           2015         TTATTGGTGCGCGACGAGTGAGT         ACTCACTCCGTCACCCACCAATAA           2016         TTAAGGGTGAACTCAACCGCGTGA         TCACGCGGTGAGTTCACCCTTAA           2017         TTGATGAAACGCTGCGCACTAC         GTGATGGCACCGTTCAATCAACCATCAA           2018         TCATGTGTAGGTCGGCCCTCAC         GTGAGGCCACACATCACACATGAA           2018         TCATGTGACCACTTCTGGGCCCTTCAC         GTGATGTGAGCAACATGAACACACACACACACACACACAC		2008	CATGGAACAAACCGTCGTAGGGGA	TCCCCTACGACGGTTTGTTCCATG
2011 TCCCAATCCCCGTGGTATCGTCGT ACGACGATACCACGGGGATTGGGA 2012 AATCAACGTAGTTCCGGTGGTCCG GGGACCACCGGAACTACGTTGATT 2013 CTTAACACCCCAGGGGTTTGGGCT AGCCCAAACCCCTGGGTTGTATT 2014 CTACCGCTGCATGGGTTTAGATTG CAATCTAACGCCATGCAGCGGTAG 2014 CTACCGCTGCGTCAGGGTTAGATTG CAATCTAACGCCATGCAGCGGTAG 2015 TTATTGGTGGCGGACGGAGTGAGT ACTCACTCCGTCCGCCACCAATAA 2016 TTATGGTGGCGGACGAGTGAGT TCACGCGGTTGAGTTCAACCCCTTAA 2017 TTTGATTGAAACGCTGCGCACTAC GTAGTGCGCAGCGATCAACACATGA 2018 TCATGTGTAAGGTCGCGCCGTCAC GTAGCGCGCAGCTACCACATAA 2019 CTCCGAACCTTCTGGGCCTTTTT AAAAGGGCCCAGAAGGTTCGGAG 2019 CTCCGAACCTTCTGGGCCTTTTT AAAAGGGCCCAGAAGGTTCGGAG 2021 CACGATCGCTCAGCCCTCCTTTT ACAAGGGCCCAGAAGGTTCGGAG 2022 CGGATCATAAGCGTCCGCCTTCGT ACGAAGGGCCAACAGAGGTTCCGAA 2023 AGGTTAACGCAACACATCAC GTGATGTGTGCCCATCGGAC 2022 GGGAAAACACACACACCACCACCCCTCGT 2022 GGGAAAACACACACACCACCACCCCTCGCTTCCT 2024 GGGAAAACAGCTAAGCCTTCCGC GCGGATCAACACTTGTGCTTAACCT 2024 GGGAAAACAGCTAAGCCTTCCGC TCGTACACA TGTGATACGATTGTTCCCC 2025 ACTTATTGCCGGGATCCGTACACA TGTGATACGATTCACACTTTTTTCCCC 2026 TGCGGCACCTGGAAAGGAAGGAGGG 2027 GCTGCCACCTGGAACAGCATCACA TGTATACGGATCCCGGCAATAAGT 2028 GCAGGCCTGAAGGAAGGAAGGAGGG 2028 GCAGGCCTGATGGACATCACA TGTATACGGATCCCAGCACACCACCACCACCACCACCACCACCACCACCAC		2009	ACACTCGCGCAGTATTCGAGTCGT	ACGACTCGAATACTGCGCGAGTGT
2012 AATCAACGTAGTTCCGGTGGTCCG CGGACCACCGGAACTACGTTGATT 2013 CTTAACAACCCAGGGGTTTGGCT AGCCCAAACCCCTGGGTTGTAAG 2014 CTACCGCTGCATGGCGTTAGATTG CAATCTAACGCCATGCAGCGGTAG 2015 TTATTGGTGGCGGACGGAGTAGATTG CAATCACTCCGTCCGCCACCAATAA 2016 TTAAGGGTGAACTCAACCGCGTGA ACTCACTCCGTCCGCCACCAATAA 2017 TTTGATTGAAACGCTGCGCACTAC GTAGTGCGCGTGAGTTCAACTCACCCTTAA 2018 TCATGTGTAGGTCGCGCCCTTAC GTAGTGCGCACCTACACACTAGA 2019 CTCCGAACCTTCTGGGCCTCTTTT AAAACAGGCCCACAAGAGTTCGGAG 2020 CTGTTGCCCATTGGCCCGACCAC GTGACGGCCAACACACACACACACACACACACACACACAC	5	2010	CTCAGTCTCGAAGGTGATCCGACC	GGTCGGATCACCTTCGAGACTGAG
2013 CTTAACAACCCAGGGGTTTGGCT AGCCCAAACCCCTGGGTTGTTAAG 2014 CTACCGCTGCATGGCGTTAGATTG CAATCTAACGCCATGCAGCGGTAG 2015 TTATTGGTGGCGGACGGAGTAGATTA ACTCACTCCGTCCGCCACCAATAA 2016 TTAAGGGTGAACTCAACCGCGTGA TCACGCGGTTCGCCCACCAATAA 2017 TTTGATTGAAACGCTGCGCACTAC GTAGTGCCGCACCCAATAA 2018 TCATGGTAGGTCGCGCCCGTCAC GTAGTGCCGCACCCACTACACTGA 2019 CTCCGAACCTTCTGGGCCTTTTT AAAAGAGGCCCAGAAGGTTCGAG 2019 CTCCGAACCTTCTGGGCCTGACT ACAGAGGGCCCAGAAGGTTCGAGA 2020 CTGTTGCCCATTGGCCCGACACTC GAGTGTCGGGCCAACAGGAGCACACACACACACACACACA		2011	TCCCAATCCCCGTGGTATCGTCGT	ACGACGATACCACGGGGATTGGGA
2014   CTACCGCTGCATGGCGTTAGATTG   CAATCTAACGCCATGCAGCCGTAG		2012	AATCAACGTAGTTCCGGTGGTCCG	CGGACCACCGGAACTACGTTGATT
10 2015 TTATTGGTGGCGACGAGTGAGT ACTCACTCCGTCCGCCACCAATAA 2016 TTAAGGGTGAACTCAACCGCGTGA TCACGCGGTTGAGTTCACCCTTAA 2017 TTTGATTGAAACGCTGCGACTAC GTAGTGCGACGCGTTCAATCAAAA 2018 TCATGTGTGGCGGCCGTCAC GTGACGGCCGCGCACCTACACATCAA 2019 CTCCGAACCTTCTGGGCCCTTTTT AAAAAAGAGGCCAGAAAGGTTCGAAC 2019 CTCCGAACCTTCTGGGCCCTTTTT AAAAAAGAGGCCAGAAGGTTCGAACA 2010 CTGTTGCCCATTGGCCCGCCTTTGT AAAAAAGAGGCCAGAAAGGTTCGGAC 2021 CACGATCGCTGAGCAACACCACCT GAGTGTGCGGGCCAACAGG 2022 CGGATCATAAGCGTCGCCTTCGT ACGAAGGCGGACCGTTAGACCGG 2023 AGGTTAACGCAACACATCAC GTGATGTGTTGTCCAGCGATCGTG 2024 GGGAAAAACAGCTACGCCTTCGT ACGAAGGCGGACGCTTATGATCCG 2024 GGGAAAAACAGCTAAGCCTTGCGA TCGCAAGGCTTAGCTGTTTTTCCC 2026 TGCGGTCTGGAAAGGAAGGAGGGGCCCTCCTTCTTTTCACCTTTCACCCT 2027 GCTGCCACCTGGACAACACACACACACACACACACACACA		2013	CTTAACAACCCAGGGGTTTGGGCT	AGCCCAAACCCCTGGGTTGTTAAG
2016 TTAAGGGTGAACTCAACCGCGTGA TCACCGCGTTGAGTTCACCCTTAA 2017 TTTGATTGAAACGCTGCGACTAC GTAGTGCGAGCGTTCAATCAAAA 2018 TCATGTTAGGTCGCGGCCGTCAC GTGACGGCCGCGACCTACACATGA 2019 CTCCGAACCTTCTGGGCCTCTTTT AAAAAAAGAGGCCCAGAAAGGTTCGAAG 2010 CTGTTGCCCATTGGCCCCGACACTC GAGTGTCGGGCCAACAGGGTCGAGA 2020 CTGTTGCCCATTGGCCCCGACACTC GAGTGTCGGGCCAACAGGGCAACAG 2021 CACGATCGCTGAGCAACACACACAC GTGATGTGTTGCTCAGCGATCGTG 2022 CGGATCATAAGCGTCCGCCTTCGT ACCAAAGGCGGACGCTTATGATCCG 2023 AGGTTAACGCAACATGTGATCCGC GCGGATCACACTTTGCCTTAACCCT 2024 GGGAAAAACAGCTAAGCCTTGCGA TCGCAAGGCTTAGCTGTTTTCCC 2026 TGCGGTCTGGAAAGGAAGGAGGG CCCTCCCTTCCTTTCCAGCACACAT 2027 GCTGCCACCTGGACAGCATCACA TGTGTACGGATCCGGCAATAAGT 2028 GCAGGCATGACACATCGCATACA TGTGTACGGATCCAGGCAGCACACACACATGTGGTTTTTCCC 2028 GCAGGCATGACAACTGGCATACA TGTGTACGGATCCAGGGCAGC 2028 GCAGGCATGACAAGTGGCTAGTAC GTAACTACGCCACATGTCATGCCTGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCAGC 2028 GCGGCCTTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCAGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC 2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGGACTAAATGGGGA 2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTGTGTTGC 2032 GGCGTTTGTATTCGAGCCACTTAG CTCAGCTCGCATTTCTGTTGC 2033 GGTAACGTCGCACGTGGAATTCCC CGGAATTCCACTGCACTTTACCCCCCCCACTTTCCTTTC		2014	CTACCGCTGCATGGCGTTAGATTG	CAATCTAACGCCATGCAGCGGTAG
2017 TITIGATIGAAACGCTGCGCACTAC 2018 TCATGTGTAGGTCGCGCCGTCAC GTGACGGCCGCACCTACACATGA 2019 CTCCGAACCTTCTGGGCCTTTTT AAAAGAGGCCCAGAAGGTTCGGAG 2019 CTCCGAACCTTCTGGGCCTTTTT AAAAGAGGCCCAGAAGGTTCGGAG 2020 CTGTTGCCCATTGGCCCGACACTC GAGTGTGGGCCAATGGGCAACAG 2021 CACGATCGCTGAGCAACACACTCAC GTGATGTGTTGCTCAGCGATCGTG 2022 CGGATCATAAGCGTCCGCCTTCGT ACGAAGGCGGACCGTTATGATCCCG 2023 AGGTTAACGCAACATGTGATCCGC GCGGATCACATGTTGCTTAGATCCCG 2024 GGGAAAACAGCTAAGCCTTCGCA TCGCAAGGCTTAGACCTC 2025 ACTTATTGCCGGGATCCGTACACA TGTGTACACCTTTCCCC GCGATCACATGTTGCCTTTCCCC 2026 TGCGGTCTGGAAAGGAAGGAGGG CCCTCCCTTCCTTTCCAGACCGCA 2027 GCTGCCACCTGGACATCACA TGTGTACGCATCCCGGCAATAAGT 2028 GCAGGCATGACACATGCATACA TGTATGCCGGTGCAGCC 2029 GCGGCCCTGATGGTTTGGCTGACC GTACACACATGCCTGCCGCACCTGCCACCTGCATCACACACA	10	2015	TTATTGGTGGCGGACGGAGTGAGT	ACTCACTCCGTCCGCCACCAATAA
2018 TCATGTCAGGTCGGCCGTCAC 2019 CTCCGAACCTTCTGGGCCTTTTT AAAAGAGGCCCAGAAGGTTCGAG 2019 CTCCGAACCTTCTGGGCCTTTTT AAAAGAGGCCCAGAAGGTTCGAG 2020 CTGTTGCCCATTGGCCCGACACTC GAGTGTCGGGCCAACAG 2021 CACGATCGCTGAGCAACACACTCC GAGTGTGGGCCAACAG 2022 CGGATCATAAGCGTCCGCCTTCGT ACGAAGGCGGACCGTTAGATCCG 2023 AGGTTAACGCAACATGTGTCCCC GCGGATCACATGTTGCTTAGACCT 2024 GGGAAAACAGCTAAGCCTTCGCA TCGCAAGGCTTAGCTGTTTTCCC 2025 ACTTATTGCCGGGATCCGTACACA TGTGTACCCGGATCCATGTTTTCCC 2026 TGCGGTCTGGAAAGGAAGGAGGG CCCTCCCTTCCTTTCCAGACCGCA 2027 GCTGCCACCTGGACATCACA TGTGTACGCATCCCGGCAATAAGT 2028 GCAGGCATGACAGAGGAGGG CCCTCCCTTCCTTTCCAGACCGCA 2029 GCGGCCCTGATGGTTTGGCTGACA TGTATGCGATCCAGGTGCACAC 2029 GCGGCCCTGATGGTTTGGCTGACA GTACACACATCAGGGCGGC 2029 GCGGCCCTGATGGTTTGGCTGACC GTACACACACACCATCAGGGCGCG 2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGAGGGGGAGCACATAATGGGGA 2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTAGTGCTGC 2032 GGCTTTTGTTTTGCCCCTCCATCAC GTGATGAGGGGGGACACACACACACACACACACACACACA		2016	TTAAGGGTGAACTCAACCGCGTGA	TCACGCGGTTGAGTTCACCCTTAA
2019 CTCCGAACCTTCTGGGCCTCTTTT AAAAGAGGCCCAGAAGGTTCGGAG 2020 CTGTTGCCCATTGGCCCGACACTC GAGTGTCGGGCCAATGGGCAACAG 2021 CACGATCGCTGAGCAACACTCAC GTGATGTTGCTCAGCGATCGTG 2022 CGGATCATAAGCGTCCGCCTTCGT ACGAAGGCGGACGCTTATGATCCG 2023 AGGTTAACGCAACATGTGATCCGC GCGGATCACATGTTGCGTTAACCT 2024 GGGAAAACAGCTAAGCCTTGCGA TCGCAAGGCTTAGCTGTTTTTCCC 2025 ACTTATTGCCGGGATCCGTACACA TGTGTACGGATCCCGCCATAAGT 2026 TGCGGTCTGGAAAGGAAGGAGGG CCCTCCCTTCCTTTCCAGACCGCA 2027 GCTGCCACCTGGACACAA TGTATACGGATCCCGGCAATAAGT 2028 GCAGGCATGACAACATGTGATACA TGTATGCGATGTCCAGGTGGCAGC 2029 GCGCCCTGATGGATACA TGTATACGCATGTCAAGGTGCAGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCACGCCAACCATCAGGGCGGC 2029 GCGCCCTGATGGTTTGGCTGAGC GCTCACGCCAACCATCAGGGCGGC 2031 GCAACACAAATGCGAGCGTAGGA CTCCTACGCCACATCACGCAC 2032 GGCGTTTGATTCGAGCCACGTAG CTCCTACGCTCGATTTGTGTTGC 2032 GGCGTTTGATTCGAGCCACGTAG CTCCTACGCTCGATTACACGCC 2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCACTTACC 2034 ACTTCACAACGCTCCGTTGGACC CGGAATTCCACGTGCACTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAACT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTAAATTCGG 2036 GGACCCGATAAGACTCTGACCCG CGGCGTCAAGACTTAATCAGCGC 2037 ACCCGTTTCTGTAGGCCCC CGGCGTCAAGAGTTTAATATCGG 2038 CACGTTCGACTGTAGGAACCTGCT AGCACGGTCTAACAGAGCGT 2039 CCTCGGATGAGCCTTGATCTTGATCCC CGCACACAGAACACGGACCGTCAACACGTCAACGGTCCATCCA		2017	TTTGATTGAAACGCTGCGCACTAC	GTAGTGCGCAGCGTTTCAATCAAA
15 2020 CTGTTGCCCATTGGCCCGACACTC GAGTGTCGGGCCAATGGGCAACAG 2021 CACGATCGCTGAGCAACACTCAC GTGATGTGTGCTCAGCGATCGTG 2022 CGGATCATAAGCGTCCGCCTTCGT ACGAAGGCGGACGCTTATGATCCG 2023 AGGTTAACGCAACATGTGATCCGC GCGGATCACATGTTGCGTTAACCT 2024 GGGAAAACAGCTAGCCTTGCGA TCGCAAGGCTTAGCTGTTTTTCCC 2025 ACTTATTGCCGGGATCCGTACACA TGTGTACGGATCCCGCCAATAAGT 2026 TGCGGTCTGGAAAGGAAGGAGGGAGGG CCCTCCCTTCCTTTCCAGACCGCA 2027 GCTGCCACCTGGACACAA TGTACGCATGTCCAGACGCA 2028 GCAGGCATGACACA TGTGTACGGATCCCGGCAATAAGT 2028 GCAGGCATGACAATACA TGTATCGCATGTCCAGACCGCA 2029 GCAGCCCTGATGGATACA TGTATCGCATGTCCAGCCGCA 2029 GCAGCCCTGATGGTTTGGCTGAGC GTACTACA GTACTACGCCACTGTCATGCCTGC 2029 GCGCCCCTGATGGTTTGGCTGAGC GCTCAGCCAACCATCAGGGCCGC 2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGAATACAACGCC 2032 GGCGTTTGTATTCGAGCCACGTAGG CTCCTACGCTCGAATACAAACGCC 2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCAGTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTTGCAACT 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTTTGAACT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACCCG CGGCGTCAGAGTCTAATCGGGTCC 2037 ACCCGTTTCTCTAGGAACCTCGT AGCAGGTTCTACGAGAAACCGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGAAACCAGTCAACGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTTCAACAGAGAAACCGGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATACAGCAGAAACCGGTC 2037 ACCCGTTTCTCTAGGAACCTGCT AGCACGATACAACAGCGGCCCTCCGAGG 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGAAAACAGGGTC 2039 CTCGGATGGGCCCATGACCTTGA TCAAGGTCATACAGCAGCAGCATCCAACGGGCCCTTCCAAGAACCGGTCCATCCA		2018	TCATGTGTAGGTCGCGGCCGTCAC	GTGACGGCCGCGACCTACACATGA
2021 CACGATCGCTGAGCAACACATCAC GTGATGTTGCTCAGCGATCGTG 2022 CGGATCATAAGCGTCCGCCTTCGT ACGAAGGCGGACGCTTATGATCCG 2023 AGGTTAACGCAACATGTGATCCGC GCGGATCACATGTTGCGTTAACCT 2024 GGGAAAAACAGCTAAGCCTTGCGA TCGCAAGGCTTAGCTGTTTTTCCC 2025 ACTTATTGCCGGGATCCGTACACA TGTGTACGGTGTTTTTCCC 2026 TGCGGTCTGGAAAGGAAGGAAGGGAGGG CCCTCCCTTCCTTTCCAGACCGCA 2027 GCTGCCACCTGGACATCGCATACA TGTATGCGATGTCCAGGTGGCAGC 2028 GCAGGCATGACATCACA TGTATGCGATGTCCAGGTGGCAGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GTACTACACACTCAGGTGCAGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCGCGC 2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGGACTAAATGGGGA 2031 GCAACACAAATGCGAGCGTAGGAC CTCCTACGCTCGCATTTTTTTTCCC 2032 GGCGTTTGTATTCGAGCCACGTAGC CTACCGTGGAATCCAACGCC 2033 GGTAACGTCGCACGTGGAATTCCC CGGAATTCCACGTGCGACTTACC 2034 ACTTCACAACGCTCGTTGGACAC CTACCGTGCGACTGTACC 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGATTCAACAACCGCC 2036 GGACCCGATAAGACTCTGACGCC CGGCGTCAGAGCTTTATCAGGTCC 2037 ACCCGTTTCTCGTAGGACCTCGCT AGCAGGTCCAACGAGACACGGT 2038 CACGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAAACGGCGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATACAGACGGGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATACAGCACGGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATCAGACAGGGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGAGCACGTGCACCTTCCAACGAGACCTTCCAACGAGACCATCCAACGGCT 2034 CACGTTTCTGTAGGGGCCCATGACCTTGA TCAAGCTCAGACACGCGCCCCAACCGTCCAACGCTCCAACCACGATACAACCCCTACAGCAGGCGTTCCAACGAGACCAACATACAGTCGAACCTTGAACCTTGAACCACTTCAACCACGCCCCTACAACCTTCAACCACGACCACACACA		2019	CTCCGAACCTTCTGGGCCTCTTTT	AAAAGAGGCCCAGAAGGTTCGGAG
2022 CGGATCATAAGCGTCCGCCTTCGT ACGAAGGCGGACGCTTATGATCCG 2023 AGGTTAACGCAACATGTGATCCGC GCGGATCACATGTTGCGTTAACCT 2024 GGGAAAAACAGCTTAGCCTTGCGA TCGCAAGGCTTAGCTGTTTTTCCC 2025 ACTTATTGCCGGGATCCGTACACA TGTGTACGGGCAATAAGT 2026 TGCGGTCTGGAAAGGAAGGAAGGAGGG CCCTCCCTTCCTTTCCAGACCGCA 2027 GCTGCCACCTGGACATCGCATACA TGTATGCGATGTCCAGGTGGCAGC 2028 GCAGGCATGACAGTGGCGTAGTAC TGTATGCGATGTCCAGGTGGCAGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GTACTACGCCACTGTCATGCCTGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC 2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGGACTAAATGGGGA 2031 GCAACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTGTTTGC 2032 GGCGTTTGTATTCGAGCCACGTAG CTACGTGGCTCGATTACCAGGGCCAC 2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCACTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGCAACC 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGGTCCACGGGCTCCACGGTGCACCTTTATCAGGGTCC 2038 CACGTTCGACTGATCTGGTTGCC GGCAACCAGATACAACGGGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCCTACGAGAAACCGGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCCTACGAGAAACCGGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATAGAGTCGAACCGTG 2040 GGACGCTGCTGTAGCGTTGA TCAAGGTCATGGGCCCATCCGAGG 2041 CTCGAGCGTGGGCTAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAAACATAGCGCGCACTAAG CTTACGCGGGCTTCCTAGAGAGTAAAA 2044 TGGTTACACGGCGCCCTGAAG CTTACGCGGGCTTCCCTACAGCAGGCGTTCCAACCAGCAACAACAGCGCCCTTAACCACAACATACAGCGCCCCTAAAAACCACTACCAACATAACACGCGCCCCTAAAAACCACTACCAACAACACGGCGCCCCTAAGAACTAAAA 40 2045 TTATGGTACCGTGCGGGGCCCCGCGTAAG CTTACCCCACGCAGCAACCATACCAT	15	2020	CTGTTGCCCATTGGCCCGACACTC	GAGTGTCGGGCCAATGGGCAACAG
2023 AGGTTAACGCAACATGTGATCCGC GCGGATCACATGTTGCGTTAACCT 2024 GGGAAAAACAGCTAAGCCTTGCGA TCGCAAGGCTTAGCTGTTTTCCC 2025 ACTTATTGCCGGGATCCGTACACA TGTGTACGGATCCCGGCAATAAGT 2026 TGCGGTCTGGAAAGGAAGGAAGGC CCCTCCCTTCCTTTCCAGACCGCA 2027 GCTGCCACCTGGACATCCAACA TGTATGCGATGTCCAGGTGGCAGC 2028 GCAGGCATGACAGTGGCGTAGTAC TGTATGCGCATCCAGGTGGCAGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC 2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGGACTAAATGGGGA 2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTTTTTTGCC 2032 GGCGTTTGTATTCGAGCCACGTAG CTACGTGGCTCGAATACAAACGCC 2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCGACGTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAAGT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACCGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGAAACCGGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCCTACGAGAAACCGGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATACGAGCAGCGTCC 2040 GGACCCCTCCTTTAGGGGCTTTATAATCCGGGCCCACCGAGGACCATCCGAGG 2040 GGACGCCTGCTGTAGGGGCTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCCAAAAAGAGCAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAAGAGCAT ATCAAACCCCTACAGCAGGCGTCC 2042 TTTACTTCTTAGGGCCGCTTTGGG CCCAAACGGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCGCTTAGG CTTACGCGGGCTTAGCTAGACAACCCAACATAGAGCACCAACATAGCGCGCCCTAAGAACCAACATACACTAGCCCGCGCGTAAGACCTACCATAA 40 2045 TTATGGTACGTGCTGCGGGG CCCCGCACCGCAGCAACGTACCATAAA		2021	CACGATCGCTGAGCAACACATCAC	GTGATGTGTTGCTCAGCGATCGTG
2024 GGGAAAAACAGCTTAGCCTTGCGA TCGCAAGGCTTAGCTGTTTTCCC 2025 ACTTATTGCCGGGATCCGTACACA TGTGTACGGATCCCGGCAATAAGT 2026 TGCGGTCTGGAAAGGAAGGAGGG CCCTCCCTTCCTTTCCAGACCGCA 2027 GCTGCCACCTGGACATCACA TGTATGCGATGTCCAGGTGGCAGC 2028 GCAGGCATGACAGTGGCGTAGTAC TGTATGCGATGTCCAGGTGGCAGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC 2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGGACTAAATGGGGA 2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTTGTTTGC 2032 GGCGTTTGTATTCGAGCCACGTAG CTACCTGGAATACAAACGCC 2033 GGTAACGTCGCACGTAGGAATTCCC CGGAATTCCACGGACGTTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGACGTTTGAAGT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGTTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG 2039 CCTCGGATGGCCCATGACCTTGA TCAAGGTCATCGAGAAACGGGT 2039 CCTCGGATGGCCCATGACCTTGA TCAAGGTCATCGAGCACACGTG 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGACGTG 2041 CTCGAGCGTGGGCTAAAAGACCAT ATGCTCTTTTAGCCCACGCTCCAAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGGGG CCCGCACGCAGCAACCGTACCATAA		2022	CGGATCATAAGCGTCCGCCTTCGT	ACGAAGGCGGACGCTTATGATCCG
2025 ACTTATTGCCGGGATCCGTACACA TGTGTACGGATCCCGGCAATAAGT 2026 TGCGGTCTGGAAAGGAAGGAGGG CCCTCCCTTCCTTTCCAGACCGCA 2027 GCTGCCACCTGGACATCGCATACA TGTATGCGATGTCCAGGTGGCAGC 2028 GCAGGCATGACAGTGGCGTAGTAC GTACTACGCCACTGTCATGCCTGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC 2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGGACTAAATGGGGA 2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTTGTTTGC 2032 GGCGTTTGTATTCGAGCCACGTAG CTACCGGCTCGAATACAAACGCC 2033 GGTAACGTCGCACGTAGAAC CTACCTGGAATACAAACGCC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAAGT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCC CGGCGTCAGAGTCTTATAATTCGG 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG 2039 CCTCGGATGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGAAACGGGT 2041 CTCGAGCGTGGGCCCATGACCTTGA TCAAGGTCATCAGAGCACGTCC 2041 CTCGAGCGTGGGCTAAAAGACCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCCTAAGAAGATAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTTACGCGGGCTGCCGTGAACCA		2023	AGGTTAACGCAACATGTGATCCGC	GCGGATCACATGTTGCGTTAACCT
TGCGGTCTGGAAAGGAAGGAGGG  2027 GCTGCCACCTGGACATCGCATACA TGTATGCGATGTCCAGGTGGCAGC  2028 GCAGGCATGACAGTGGCGTAGTAC GTACTACGCCACTGTCATGCCTGC  2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC  2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC  2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGGACTAAATGGGGA  2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTGTGTTGC  2032 GGCGTTTGTATTCGAGCCACGTAG CTACGTGGATTACAAAACGCC  2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCGACGTTACC  2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAAGT  2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG  2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC  2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT  2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG  2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG  2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC  2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG  2042 TTTACTTCTTAGGGCGCGCTTTGGG CCCAAACGCGCCCTAAGAAGTAAA  2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCCCTTAGAAGTAAA  2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGAACCA  40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCACCAACGTACCATAA		2024	GGGAAAAACAGCTAAGCCTTGCGA	TCGCAAGGCTTAGCTGTTTTCCC
2027 GCTGCCACCTGGACATCGCATACA TGTATGCGATGTCCAGGTGGCAGC 2028 GCAGGCATGACAGTGGCGTAGTAC GTACTACGCCACTGTCATGCCTGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC 2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGACTAAATGGGGA 2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTGTGTTGC 2032 GGCGTTTGTATTCGAGCCACGTAG CTACGTGGATTACAAACGCC 2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGGACGTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGGCGTTGTGAAGT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAACGGGT 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTTAGGGCGCGTTTGGC CCCAAACGCGCCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCCTAAGAAGTAAA 2043 TGGTTACACGGCAGCCCCGCTAAG CTTACGCGGGCTGCCTTAACACA 40 2045 TTATGGTACGTTGCTGCTGCGGG CCCCCACGCAGCAACGTACCATAA	20	2025	ACTTATTGCCGGGATCCGTACACA	TGTGTACGGATCCCGGCAATAAGT
2028 GCAGGCATGACAGTGGCGTAGTAC GTACTACGCCACTGTCATGCCTGC 2029 GCGGCCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC 2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGGACTAAATGGGGA 2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTGTGTTGC 2032 GGCGTTTGTATTCGAGCCACGTAG CTACGTGGCTCGAATACAAACGCC 2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCGACGTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAAGT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAATCGAGCGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 35 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTAAGAAGTAAA 2044 TGGTTACAGGCGCGCGTAAG CTTACGGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGGG CCCCGCACCACACATACACT		2026	TGCGGTCTGGAAAGGAAGGGAGGG	CCCTCCCTTCCTTTCCAGACCGCA
2029 GCGGCCTGATGGTTTGGCTGAGC GCTCAGCCAAACCATCAGGGCCGC 2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGACTAAATGGGGA 2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTGTGTTGC 2032 GGCGTTTGTATTCGAGCCACGTAG CTACGTGGCTCGAATACAAACGCC 2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCGACGTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAAGT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAACGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 35 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCCCTAAGAAGTAAA 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGGGG CCCGCACGAGCAACGTACCATAA		2027	GCTGCCACCTGGACATCGCATACA	TGTATGCGATGTCCAGGTGGCAGC
2030 TCCCCATTTAGTCCCCTCCATCAC GTGATGGAGGGACTAAATGGGGA 2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTGTGTTGC 2032 GGCGTTTGTATTCGAGCCACGTAG CTACGTGGCTCGAATACAAACGCC 2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCGACGTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAAGT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTTTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGAACCA 40 2045 TTATGGTACGTTGCTGCGGGG CCCGCACGCAGCAACGTACCATAA		2028	GCAGGCATGACAGTGGCGTAGTAC	GTACTACGCCACTGTCATGCCTGC
2031 GCAACACAAATGCGAGCGTAGGAG CTCCTACGCTCGCATTTGTGTTGC 2032 GGCGTTTGTATTCGAGCCACGTAG CTACGTGGCTCGAATACAAACGCC 2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCGACGTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAAGT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCCGCAGCAACGTACCATAA		2029	GCGGCCCTGATGGTTTGGCTGAGC	GCTCAGCCAAACCATCAGGGCCGC
GGCGTTTGTATTCGAGCCACGTAG  2032 GGTAACGTCGCACGTAG CTACGTGGCTCGAATACAAACGCC  2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCGACGTTACC  2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAAGT  2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG  2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC  2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT  2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG  2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG  2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAACCCCTACAGCAGGCGTCC  2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG  2042 TTTACTTCTTAGGGCGCGCTTTGGG CCCAAACGCGCCCTAAGAAGTAAA  2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTTTGTTGTTGT  2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA  40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCCGCACGCAGCAACGTACCATAA	25	2030	TCCCCATTTAGTCCCCTCCATCAC	GTGATGGAGGGGACTAAATGGGGA
2033 GGTAACGTCGCACGTGGAATTCCG CGGAATTCCACGTGCGACGTTACC 2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAAGT  2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCACCAACGTACCATAA		2031	GCAACACAAATGCGAGCGTAGGAG	CTCCTACGCTCGCATTTGTGTTGC
2034 ACTTCACAACGCTCCGTTGGACAC GTGTCCAACGGAGCGTTGTGAAGT 2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCAACGTACCATAA		2032	GGCGTTTGTATTCGAGCCACGTAG	CTACGTGGCTCGAATACAAACGCC
2035 CCGAATTATAAAGCGCAAGGCACA TGTGCCTTGCGCTTTATAATTCGG 2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCACGCACCATAA		2033	GGTAACGTCGCACGTGGAATTCCG	CGGAATTCCACGTGCGACGTTACC
2036 GGACCCGATAAGACTCTGACGCCG CGGCGTCAGAGTCTTATCGGGTCC 2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCACGCACCATAA		2034	ACTTCACAACGCTCCGTTGGACAC	GTGTCCAACGGAGCGTTGTGAAGT
2037 ACCCGTTTCTCGTAGGAACCTGCT AGCAGGTTCCTACGAGAAACGGGT 2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCAGCAACGTACCATAA	30	2035	CCGAATTATAAAGCGCAAGGCACA	TGTGCCTTGCGCTTTATAATTCGG
2038 CACGTTCGACTGTATCTGGTTGCC GGCAACCAGATACAGTCGAACGTG 2039 CCTCGGATGGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG 35 2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCAGCAACGTACCATAA		2036	GGACCCGATAAGACTCTGACGCCG	CGGCGTCAGAGTCTTATCGGGTCC
2039 CCTCGGATGGCCCATGACCTTGA TCAAGGTCATGGGCCCATCCGAGG  2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC  2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG  2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA  2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT  2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA  40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCAGCAACGTACCATAA		2037	ACCCGTTTCTCGTAGGAACCTGCT	AGCAGGTTCCTACGAGAAACGGGT
2040 GGACGCCTGCTGTAGGGGTTTGAT ATCAAACCCCTACAGCAGGCGTCC 2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCAACGTACCATAA		2038	CACGTTCGACTGTATCTGGTTGCC	GGCAACCAGATACAGTCGAACGTG
2041 CTCGAGCGTGGGCTAAAAGAGCAT ATGCTCTTTTAGCCCACGCTCGAG 2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCAGCAACGTACCATAA		2039	CCTCGGATGGGCCCATGACCTTGA	TCAAGGTCATGGGCCCATCCGAGG
2042 TTTACTTCTTAGGGCGCGTTTGGG CCCAAACGCGCCCTAAGAAGTAAA 2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCAACGTACCATAA	35	2040	GGACGCCTGCTGTAGGGGTTTGAT	ATCAAACCCCTACAGCAGGCGTCC
2043 ACCACCAACATAGCGCGCACTAGT ACTAGTGCGCGCTATGTTGGTGGT 2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCAGCAACGTACCATAA		2041	CTCGAGCGTGGGCTAAAAGAGCAT	ATGCTCTTTTAGCCCACGCTCGAG
2044 TGGTTACACGGCAGCCCGCGTAAG CTTACGCGGGCTGCCGTGTAACCA 40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCAGCAACGTACCATAA		2042	TITACTTCTTAGGGCGCGTTTGGG	CCCAAACGCGCCCTAAGAAGTAAA
40 2045 TTATGGTACGTTGCTGCGTGCGGG CCCGCACGCAGCAACGTACCATAA		2043	ACCACCAACATAGCGCGCACTAGT	ACTAGTGCGCGCTATGTTGGTGGT
		2044	TGGTTACACGGCAGCCCGCGTAAG	CTTACGCGGGCTGCCGTGTAACCA
2046 ACCGCGGATCTAACGAATCCCATT AATGGGATTCGTTAGATCCGCGGT	40	2045	TTATGGTACGTTGCTGCGTGCGGG	CCCGCACGCAGCAACGTACCATAA
		2046	ACCGCGGATCTAACGAATCCCATT	AATGGGATTCGTTAGATCCGCGGT

	2047	CATGATCCCGCCCTTAGGTTAAGC	GCTTAACCTAAGGGCGGGATCATG
	2048	TACCGCTTCAAAGGGTTGCCGAAT	ATTCGGCAACCCTTTGAAGCGGTA
	2049	GCACCGCGTCAATATTACCGAGGA	TCCTCGGTAATATTGACGCGGTGC
	2050	GTGTCGCGGCTTTACAGAAGGAGA	TCTCCTTCTGTAAAGCCGCGACAC
5	2051	GCAAGCCATACCGCAATAAACTCG	CGAGTTTATTGCGGTATGGCTTGC
	2052	ATGAGGTCGTGCTGCGTTCACGAG	CTCGTGAACGCAGCACCTCAT
	2053	CGAGACTAGTGCCGATGCAGGGTA	TACCCTGCATCGGCACTAGTCTCG
	2054	GCCTCATCATAGACGCTGGATGCA	TGCATCCAGCGTCTATGATGAGGC
	2055	GACAGGCGTCGGTAAGCTCTCAAG	CTTGAGAGCTTACCGACGCCTGTC
10	2056	GCTACGAATCTTCCCTGTCGCCAC	GTGGCGACAGGGAAGATTCGTAGC
	2057	TTTGGCAGAACGTACCAGTGGGGT	ACCCCACTGGTACGTTCTGCCAAA
	2058	GGACAATAAGCACCGGAGAATGCG	CGCATTCTCCGGTGCTTATTGTCC
	2059	TCATGAACCTTCTGATGCCGCGAA	TTCGCGGCATCAGAAGGTTCATGA
	2060	CGCCGCATTACCTTAAAAACGTGC	GCACGTTTTTAAGGTAATGCGGCG
15	2061	ACGAGTCCAACCGCCTCATTGATT	AATCAATGAGGCGGTTGGACTCGT
	2062	GCGAAGAGTTGCTACTCTTCCGCC	GGCGGAAGAGTAGCAACTCTTCGC
	2063	CGTCGGCAACAATCTTTTCGTGA	TCACGAAAAAGATTGTTGCCGACG
	2064	AATCCTGTGCACCCGTGAGACGCG	CGCGTCTCACGGGTGCACAGGATT
	2065	AACCTATATGCATCAACGCGAGCC	GGCTCGCGTTGATGCATATAGGTT
20	2066	GAACTTGGCAAAACAGCCCGGAAA	TTTCCGGGCTGTTTTGCCAAGTTC
	2067	CTCTATGGCCGTTTGCCGTCTGCA	TGCAGACGGCAAACGGCCATAGAG
	2068	AGTGCACCGGGTTGTGGACACAAT	ATTGTGTCCACAACCCGGTGCACT
	2069	CCTGGCTTTTCACACGCCAAGAAA	TTTCTTGGCGTGTGAAAAGCCAGG
	2070	CACTCAGCGTAGCCTGAAGCCTGG	CCAGGCTTCAGGCTACGCTGAGTG
25	2071	GAATTATCGACCGCAGCGGTGTCG	CGACACCGCTGCGGTCGATAATTC
	2072	GTGACATCACATGGTGGCCGAGCG	CGCTCGGCCACCATGTGATGTCAC
	2073	AGCACCTTGCCGAGTCACCAGTGA	TCACTGGTGACTCGGCAAGGTGCT
	2074	TAGGTTGCAGGAATGGTGGGCACC	GGTGCCCACCATTCCTGCAACCTA
	2075	GTCCCATACGTGTGGTACGCGGAT	ATCCGCGTACCACACGTATGGGAC
30	2076	TCGGATACTCTCGCGTGCCACGGG	CCCGTGGCACGCGAGAGTATCCGA
	2077	CAACGTTCGCCCCTAAGCCCAAAT	ATTTGGGCTTAGGGGCGAACGTTG
	2078	GTTAGGTCACCGCGGCATATCCTA	TAGGATATGCCGCGGTGACCTAAC
	2079	GTTCACCGGCCTCTACTTGGGTTT	AAACCCAAGTAGAGGCCGGTGAAC
	2080	AATCCGCGTCTAGGTCATGTGGTC	GACCACATGACCTAGACGCGGATT
35	2081	GCTACGCCTCTGGAGGTGGTACCC	GGGTACCACCTCCAGAGGCGTAGC
	2082	CAGGGAATGCTACAAAGGGTCCAA	TTGGACCCTTTGTAGCATTCCCTG
	2083	AAGGGTTAGCTGCCCGGTTAACAG	CTGTTAACCGGGCAGCTAACCCTT
	2084	CCTCGCAAGCGCGATATTTATGCC	GGCATAAATATCGCGCTTGCGAGG
	2085	GCCTCCCGGTCATGGTCAAGGGAA	TTCCCTTGACCATGACCGGGAGGC
40	2086	GCTGTTGAGCGGCGACCTGTGCAC	GTGCACAGGTCGCCGCTCAACAGC
	2087	CGCTGACTTAGCTCTGATGTGCCG	CGGCACATCAGAGCTAAGTCAGCG

	2088	TTCATGGCATTCATCACGAAGGAA	TTCCTTCGTGATGAATGCCATGAA
	2089	TAGTGTTATGCCCGCGTGTGAATG	CATTCACACGCGGGCATAACACTA
	2090	CATGTAAGGGCACGGTCGTGGGCA	TGCCCACGACCGTGCCCTTACATG
	2091	CAGGAAGCTCGCTCCGTGATGCAC	GTGCATCACGGAGCGAGCTTCCTG
5	2092	CCTGCTGATAGCAACCTCACTGCA	TGCAGTGAGGTTGCTATCAGCAGG
	2093	ACTACGAGGGCAGGGTCTAGGCG	CGCCTAGACCCTGCCCCTCGTAGT
	2094	CATAATGTGGGTGCTGACGCCGAT	ATCGGCGTCAGCACCCACATTATG
	2095	TAGCGAATCCACACAGAGCCGCTC	GAGCGGCTCTGTGTGGATTCGCTA
	2096	TCGCGAAATCCCTAAATCCTGTGC	GCACAGGATTTAGGGATTTCGCGA
10	2097	TGGCACGAATCAAGCCACCAACTC	GAGTTGGTGGCTTGATTCGTGCCA
	2098	GCGGACCGTCTTTGCTATCTGACG	CGTCAGATAGCAAAGACGGTCCGC
	2099	AGGCCCGCCTTGTAATTGGTCAT	ATGACCAATTACAAGGCGGGGCCT
	2100	CTGGTCCCATACGCCGCTGACTAG	CTAGTCAGCGGCGTATGGGACCAG
	2101	TGCTAACTGCGGCCCTACAGAGTC	GACTCTGTAGGGCCGCAGTTAGCA
15	2102	TGGTTTATGTTCGGTAGCGTCCG	CGGACGCTACCGAACATAAAACCA
	2103	AGCTCAAACTTCTCCCACGGGATG	CATCCCGTGGGAGAAGTTTGAGCT
	2104	CGCGAAGATAGTGAAATCCGCATC	GATGCGGATTTCACTATCTTCGCG
	2105	GAGTGAAACCTCTCGCGGGTTGCA	TGCAACCCGCGAGAGGTTTCACTC
	2106	TCGAATGCTCTGCAGTGACGTCAA	TTGACGTCACTGCAGAGCATTCGA
20	2107	AGGTGGCAATGATCGACGACCCTG	CAGGGTCGTCGATCATTGCCACCT
	2108	GTCCGGAGCCGTGCAAAGCAATAA	TTATTGCTTTGCACGGCTCCGGAC
	2109	CTTTTGGGGATTAGAGGCCGACAA	TTGTCGGCCTCTAATCCCCAAAAG
	2110	GGCATAAAGGCTTCCGTTCCTGTC	GACAGGAACGGAAGCCTTTATGCC
	2111	GCGGACCGTAAAGCGGGCAGATAG	CTATCTGCCCGCTTTACGGTCCGC
25	2112	TTTCAAGAGTGCATCGAATCCACG	CGTGGATTCGATGCACTCTTGAAA
	2113	CCGGCATCCCTTCTCGCTGTTGCC	GGCAACAGCGAGAAGGGATGCCGG
	2114	ACACAGAGACGCGAACGGAGTGCA	TGCACTCCGTTCGCGTCTCTGTGT
	2115	AGCGGCATTCTCCCACTCGTTACT	AGTAACGAGTGGGAGAATGCCGCT
	2116	GGAGCGTACTGCGCCTCGCAAGTC	GACTTGCGAGGCGCAGTACGCTCC
30	2117	AAACCCGAATGACACGGCAGATAA	TTATCTGCCGTGTCATTCGGGTTT
	2118	AACCAGCGGATCGATAAAACGACA	TGTCGTTTTATCGATCCGCTGGTT
	2119	GGTGTCCACCCGTTAACGCCGGTA	TACCGGCGTTAACGGGTGGACACC
	2120	AGCGCGACGTGGCTTGCCGTTAAA	TTTAACGGCAAGCCACGTCGCGCT
	2121	TCCCACGCTATAGGTCCAACGAC	GTCGTTGGACCTATAGCCGTGGGA
35	2122	ATCAACGAACGATGCCGTTAGGTG	CACCTAACGCCATCGTTCGTTGAT
	2123	GAGGCTAAGCCGTATGGCCGAGGC	GCCTCGGCCATACGGCTTAGCCTC
	2124	ACGGTCCGAAATGGTTAGAGGCAC	GTGCCTCTAACCATTTCGGACCGT
	2125	ACGCAAACCATTCCTCGAGTAGGC	GCCTACTCGAGGAATGGTTTGCGT
	2126	TTACACGCTCGCTATTGGGCCATA	TATGGCCCAATAGCGAGCGTGTAA
40	2127	CTCGGCACGGGTTTAGAACGCCGG	CCGGCGTTCTAAACCCGTGCCGAG
	2128	ATTCGGTAAGGTATCGGGCTAGCG	CGCTAGCCCGATACCTTACCGAAT

2129   AGCACACGITATACATGACGGCG   CGCGTCATGTATAACGGTTGTCT     2130   AGTCCCTGCGTTCGCTCATGGAA   TTCCATGAGCGAACGGCAGGACT     2131   GGGCTTATGACCAGTTGGAT   TTCCATGAGCGAACGGCAGGACT     2132   GGTCACCACCAGAGTGCCTGGTCT   AGACCAGGCACTCGTGTGTGACC     2133   TTGATCGTGTCTCCCGAAACCCTC   GAGGGTTTCGGGAGACACGATCAA     2134   ATTGTCGCGATCGGCATTTCTTAA   TTAAGAAATGCCCATGGCGACAAT     2135   GGGTCCACCACGATTCTGCTGCTG   CAGCAGCGAGAAGTCGTTGGACCC     2136   CAAATTCCTTGGGGGCCATAGTGG   CACCAGCAGCAGAGTCGTTGGACCC     2137   CCAGAGTATCCGCCGTTAGACGGT   ACCGTCTAACGGCGGATACTCTGG     2138   TCCTGCAGAATACTCTGTGTGTG   CCAGAACGAGATGATCTCGGAG     2139   TGCGGGAGATCATCTGGTGTG   CCAGAACGAGATGATCTCGGGA     2139   TGCGGGAGATTGACACACTTG   CAGACCGAGATGATCTCCGGCA     2140   TTTAGACCGCCGATTGAACAGCTTG   CACGCTTGACTGGCCCCCAAGAACTCTCTGG     2141   TTTCGGCAGAATCTCCGATTCAAC   GTGAATCGGAGATTCTCCCGCA     2142   TGGCGAGCAGACTTACAAGCACAA   CTCTGTTTTCAAATCTCCCGCA     2143   GGCGACCAGACCTACAAGCACAA   CTCTGTCTTGTGTGCTCGCC     2144   TGTAGACCTGCGTTTCGTGGGACC   TGGCCGATGTACCGGTCTTGCC     2145   GCCGAGCCGTGACATCAGCACAA   CTCTGTTGTAGGTCTGCCCC     2146   TAATCACCCCGCTTTCTGTGGGCA   GGCCCACAAAACGCAGGTCTTCGC     2146   TAATCACCCCCGTTTCTGTGGCC   AGCCACAAAACGCAGGTCTTACA     2147   GGCGAGCCTTGCATCAACGTC   AGCACACAAACGCAGGTCTTACA     2148   CCTGTAGACCTGCATGGACCT   TAACAGCTATGGTCACAGGCTCGGC     2149   ATCGCCGTTCCGCATGGATCATC   AGCACACAAACGCAGGTCTTACAG     2149   ATCGCCGTTCCGCAAAATAACCA   TGCTTATTTTCCGGGCATTGCCC     2150   TGGATCAACGGGGTAGTGAAAACC   GCTTAAAGAACAGCTGCCCGTT     2151   AGCACGACGATCTTTCTTCAGCTTG   CAGCGATCAAGAACAGCTGCCCGTT     2152   CACGGGCACGTGTTCTTCTGGCTG   CAGCGATCAAGAACAGCTGCCCGTT     2153   ACGGGCTGGGACAGACCTTCTTCTGCCC   CAGCGATCAAGAACAGCTGCCCGTT     2154   GTAACTGGCCCCCCCCTTCACTC   CAGCGATCAACAGCACCTCCCTGTACCAC     2155   ACTCTGGCTCTGCCC   GCCGGAACAGAACTTCCTCGCC     2156   GACCAAGGACCAGTCCTTTCTTCTCC   CAGCGCAACACACTCCCTGCTAACGCC     2157   AGTAGCTCTTGCGCC   GCCGGAACAGAACCTTCCTTGCTCT     2158   TCTTTGTCTGGGGGAACAGCACCTCT   CATTGGTGGCCCAACAGCCTCCTTCAATC     215				
2131   GGGCTTATGACCAGTCAGTTGAA   TCCAACCTGACTGGTCATAAGCCC   2132   GGTCACCACAGGAGTGCTTGTCT   AGACCAGGCACTCGTGTGTGTGACC   2133   TTGATCGTGTCTCCCGAAACCCTC   GAGGGTTTCGGGAGACACGATCAA   2134   ATTGTCGCGATCGGCATTTCTTAA   TTAAGAAATGCCGACCAAT   2135   GGGTCCAACGACTTCTTGGTGCTG   CAGCAGCAGAGAGAGTGATAA   2136   CAAATTCCTTGGGGGCCATAGTGG   CCACTATGGCCCCCAAGGAATTTG   CAGCAGCGAGAAGTCGTTCTGGTGTGTG   CAGCAGCGAGAAGTCGTTGGACCC   2136   CAAATTCCTTGGGTGCTG   CAGCAGCGAGAAGTCGTTGGACCC   2137   CCAGAGTATCCGCGCGTTAGACGGT   ACCGTCTAACGGCGGATACTCTGG   2138   TCCTGCAGATCATCTGTGTGTGTG   CCAGACACAGAATATCTCCGGCA   2149   TTAGACGCCGAGCTAGTACACACTGTA   TACAGCTTGTAACATCTCCCGCA   2140   TTAGACCGCGAGATACTCCGACTGTA   TACAGCTTGTCAACTCCCGCAAACTTCACACACACACACA		2129	AGCACACCGTTATACATGACGGCG	CGCCGTCATGTATAACGGTGTGCT
2132   GGTCACCACGAGTGCCTGGTCT   AGACCAGGCACTCGTGTGTGTGACC		2130	AGTCCCTGCCGTTCGCTCATGGAA	TTCCATGAGCGAACGGCAGGACT
5 2133 TIGATOGTGTCCCGAAACCCTC GAGGGTTTCGGGAGACACGATCAA 2134 ATTGTCGCGGATCGCATTTCTTAA TTAAGAAATGCCGATCGCGACAAT 2135 GGGTCCAACGACTTCTCGCTGCTG CAGCCAGCGAGAAGTCGTTGGACCC 2136 CAAATTCCTTGGGGGCCATAGTGG CCACTATGGCCCCCAAGGAATTTGT CCAGAGTATCCGCCGTTAGACGGT ACCGCTCTAACGGCGGATACTCTGG 2137 CCCAGAGTATCCGCCGTTAGACGGT ACCGCTCTAACGGCGGATACTCTGG 2138 TCCTGCAGATCATCTCGTGTCTGG CCAGACACGAGATGATCTCTGGACC 2139 TGCGGGAGATTGAACAAGCTGT ACCGCTCTAACGGCGGATACTCTGAGA 2140 TTAGACGCCGAGCTAGGCAACGTC GACGTTGCTCAAGTCTCCGCAA 2141 TTTCGGCAGAATCTCCGATTCAAC GTTGATCGGAGATTCTCCCGCA 2142 TGGCGAGCAGACTACAACAACAACACAA TCTGTCTTGAGTCTGGCCCAAA 2144 TCTAGACCTGCGTTTCAAC GTTGAATCGGCAAATCTCGCCAA 2144 TCTAGACCTGCGTTTCGTGGGACC GGCCCACAAACGCAGGTCTACAC 2145 GCCGAGCGTGATACCATACGTCA 2146 TCAATCACCCCGCTTTCGTGGGACC 2146 TCAATCACCCCCTTTCTTGTGGCACACTCAAC 2147 GGCCGGAGCCATTGGACCATTCAA 2147 GGCCGGAGCCATTGGACCATTCAA 2148 CCTGTAGACCTGCATTCAACACACACACACACACGCTCCGGC 2148 CCTGTAGACCTGCATTCATCATCAACACACACACACACAC		2131	GGGCTTATGACCAGTCAGGTTGGA	TCCAACCTGACTGGTCATAAGCCC
2134 ATTGTCGCGATCGGCATTTCTTAA TTAAGAAATGCCGATCGCGACAAT 2135 GGGTCCAACGACTTCTCGCTGCTG CAGCAGCAGCAGAAGTCGTTGGACCC 2136 CAAATTCCTTGGGGGCCATAGTGG CCACTATGGCCCCCAAGGAATTTG 2137 CCAGAGTATCCGCCGTTAGACGGT ACCGTCTAACGGCGGATACTCTGG 2138 TCCTGCAGATCATCTGGTGTCTGG CCACACACGAGAATGATCTGAGAC 2139 TGCGGAGATTTGAACAAGCTGTA TACAGCTGGAATCTCGCAGACACGAGATGATCTCCGCA 2140 TTAGACGCCGAGCTAGGCAACGTC GACGTTGCATACTCCCGCA 2141 TITCGGCAGAATCTCCGATTCAAC TTGAATCGAGAGATTCTCCCCCAA 2142 TGGCGAGACACACACAACGAC GACGTTGCATACCGCGAACACGAGAATCACCACAACACACAC		2132	GGTCACCACACGAGTGCCTGGTCT	AGACCAGGCACTCGTGTGGTGACC
2135 GGGTCCAACGACTTCTCGCTGCTG CAGCAGCAGAAGTCGTTGGACCC 2136 CAAATTCCTTGGGGGCCATAGTGG CCACTATGGCCCCCAAGGAATTTG 2137 CCAGAGTATCCGCCGTTAGACGGT ACCGTCTAACGGCGGATACTCTGG 2138 TCCTGCAGATCATCTCGTGTCTGG CCAGACACGAGATGATCTCGG 2139 TGCGGGAGATTTGAACAAGCTGTA TACAGCTTGTCTCACACGAGA 2140 TTTAGACGCCGAGCTAGGCAACGTC GACGTTGCCTACCTCGGCGTCTAA 2141 TTTCGGCAGAATCTCCGATTCAAC GTTGAATCGGAGATCTTCCCGCA 2142 TGGCGAGCAGACCTACAAGACAGA TCTGTCTTGTTGCCCGAAA 2142 TGGCGAGCAGACCTACAAGACAGA TCTGTCTTGTAGGTCTGCCCCA 2144 TCTAGACCTGCGGTTCAACAGACAGA TCTGTCTTGTAGGTCTGCCCAACACCCAGAAACCCAAGACCCAGACCCACACACA	5	2133	TTGATCGTGTCTCCCGAAACCCTC	GAGGGTTTCGGGAGACACGATCAA
2136 CAAATTCCTTGGGGGCCATAGTGG CCACTATGGCCCCCAAGGAATTTG 2137 CCAGAGTATCCGCCGTTAGACGGT ACCGTCTAACGGCGGATACTCTGG 2138 TCCTGCAGATCATCTCGTGTCTGG CCAGACACGAGATGATCTGCAGGA 2139 TGCGGGAGATTTGAACAAGCTGTA TACAGCTTGTAAATCTCCCGGCA 2140 TTAGACGCCGAGCTAGGCAACGTC GACGTTGCACTCCGGCACACGAGATGATCTCGCGCAACACGAGATGATCTCGCGCAACACGAGATGATCTCCGAACACGTC GACGTTGCCTACCTCGGCGCTAAACCTCCGAATCCACACGTC GACGTTGCACTCGGCGCAACACGCAGACCTCCAAACACACGAACCTCCGAAACCCAGAACCTCCGAAACCCAGAACCTCCGAAACCCAGAACCCAGAACCCAGAACCCAGAACCCAGAACCCAGAACCCAGAACCCAGAACCCAGAACCCAGAACCCAGAACCCAGAACCCAGACCCACAACA		2134	ATTGTCGCGATCGGCATTTCTTAA	TTAAGAAATGCCGATCGCGACAAT
2137 CCAGAGTATCCGCCGTTAGACGGT ACCGTCTAACGGCGGATACTCTGG 2138 TCCTGCAGATCATCTCGTGTCTGG CCAGACACGAGATCATCTCGAGA 2139 TGCGGGAGATTTGAACAAGCTGTA TACAGCTTGTCAAATCTCCCGCA 2140 TTAGACGCCGAGCTAGGCAACGTC GACGTTGCCTAGCTCGGCGTCTAA 2141 TTTCGGCAGATCTCCGATTCAAC GTTGAATCGCTCGGCGTCTAA 2142 TGGCGAGCAGCTCACAAGACAGA TCTGTGTTGTAGGTCTGCGCCAA 2143 GGCGACAGACCGATCACAAGACAGA TCTGTCTTGTAGGTCTGCTCGCCCA 2144 TCTAGACCTGCGTTTCGTGGGACC TGGCCAGAAACGCAGGTCTAGA 2145 GCCGAGCGTGACCTTCATCGTCAC 2146 TAATCACACCCGCTTTCTTGTGGCT AGCCCACGAAACGCAGGTCTAGA 2147 GGCCGAGCCATTGGACACTTCT AGACGTATGGTCACCGGCCCCGCC 2148 CCTGTAGACCTTCTT AAGACGTACCAAAGCAGGTCTAGA 2149 ATCGCCGTTTCTGTGGCT AGCCACAGAAACGCAGGTCAAGA 2149 ATCGCCGTTCCGCCAAAATAAGCA TGCTTATTTTGCGGGAACGCCGT 2150 TGGATCAACGGGGTAGAAACAC CGTTTTCACTACAGGCAT 2151 AAGCGACGATGCTTTCTTGAGCT CAGCGATCCATGCAGGTCTACAGG 2152 CACGGCACGTGTTCTTGAGCT CAGCGATCCATGCAGGTCTACAGG 2153 ACGGGCTGGACACTTTCTTAGACTC CAGCGATCCATGCAGGTCTACAGG 2154 GGTAACTGGCTCCGCCAAAATAAGCA TGCTTATTTTGCGGGAACGCCGTT 2152 CACGGCACGTGTTTCTTGAGCTG CAGCTCAAGAAAGCACGTCCCCTTG 2152 CACGGCACGTGTTTCTTCAGCTTG CAGCTCAAGAAAACACGTCCCCGTT 2153 ACGGGCTGGGACAAGAAA TTTCTAGCTCTTGCCCCCGCCTT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTAGAAACACGTCCCCGTT 2155 ACTCTGGCTGTTGCGCAACATGAAA TTTCTAGCTCTTTGCCAGCCCGT 2156 GACCGAGGACCAGTCCTTGCTCTC 2157 AGTACCTGGCTCTCACATC GATGTAGAACACGTGCCCCGTG 2158 TTCTTGTCCTGGGGGAACGGAA 2159 TTAGCAGGGAGCAGTACATCCCCCCTG CAGCGTACAACACACTCCCCTGGTC 2159 TTAGCAGGGAGCAGTGCTCTCCCCCC GCGCGAAGAACACATCCCCCGTTCCCCCCCGCCTTAACGGCCCAAGAACACACTCCCCTGGTCTAACGCCCCTTGCTCCCCCCCGAAGACACAAAA 2159 TTAGCAGGGAGGTTGTCGGCCCAACAACACACACCCACAGCCAACAACACACAC		2135	GGGTCCAACGACTTCTCGCTGCTG	CAGCAGCGAGAAGTCGTTGGACCC
10 2138 TCCTGCAGATCATCTCGTGTCTGG CCAGACACGAGATGATCTGCAGGA 2139 TGCGGGAGATTTGAACAAGCTGTA TACAGCTTGTTCAAATCTCCCGCA 2140 TTAGACGCCGAGCTAGGCAACGTC GACGTTGCCTAGACTCGCATA 2141 TTTCGGCAGAATCTCCGATTCAAC GTTGAATCGGAGATTCTGCCGAAA 2142 TGGCGAGCAGCACCACAGACACACACACACACACACACAC		2136	CAAATTCCTTGGGGGCCATAGTGG	CCACTATGGCCCCCAAGGAATTTG
2139 TGCGGGAGATTTGAACAAGCTGTA TACAGCTTGTTCAAATCTCCCGCA 2140 TTAGACGCCGAGCTAGGCAACGTC GACGTTGCCTAGCTCGGCGTCTAA 2141 TTTCGGCAGAATCTCCGATTCAAC GTTGAATCGGAGATTCTGCCGAAA 2142 TGGCGAGCAGACCTACAAGACAGA TCTGTGTTGTAGGTCTGCCCA 2144 TCTAGACCTGCGTTCAAC TGGCCCA TGGCCACGAAACCTACAACACAGA TCTGTCTTGTAGGTCTGCCCA 2144 TCTAGACCTGCGTTTCGTGGGACC GGTCCCACGAAACCAGGTCTAGA 2145 GCCGAGGGTGGTACCATCAGTTCA TGAACGTATGGTCACCACGAAACGCAGGTCTAGA 2146 TAATCACACCCGCTTTCTGTGGCT AGCCACGAAAAGCAGGTCTAGA 2147 GGCCGGAGCCATTGGACACTTCTT AAGAAGTGTCCAATGGCTCCGGCC 2148 CCTGTAGACCTGCATGGACACTTCTT AAGAAGTGTCCAATGGCTCCGGCC 2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTGCGGGAACGGCGAT 2150 TGGATCAACGGGGTAGTGAAACAC CGTTTTTCACGCTTGACACGCCGTTTCTTTAGACGTTACACGCCGCTTTCTTT		2137	CCAGAGTATCCGCCGTTAGACGGT	ACCGTCTAACGGCGGATACTCTGG
2140 TTAGACGCCGAGCTAGGCAACGTC GACGTTGCCTAGCTCGGCGTCTAA 2141 TTTCGGCAGAATCTCCGATTCAAC GTTGAATCGGAGATTCTGCCGAAA 2142 TGGCGAGCAGACCTACAAGACAGA TCTGTCTTGTAGGTCTGCCCCA 2143 GGCGACAGACCGGTACATCGGCCA TGGCCGATATCGGCCA 2144 TCTAGACCTGCGTTTTCGTGGGACC GGTCCCACGAAACGCAGGTCTAGA 2145 GCCGAGCGTGGTACCATACGTTCA TGAACGTATGGTACCACGCTCGGC 2146 TAATCACACCCGCTTTCTGTGGCT AGCCACAGAAACGCAGGTCTAGA 2147 GGCCGAGCCTTGGACCATACGTTCA AGCACAAAAGCGGGTGTGATTA 2147 GGCCGAGCCATTGGACACTTCTT AAGAAGTTCCAATGGCTCCGGCC 2148 CCTGTAGACCTGCATGGATCGTC CAGCGATCCATGCAGGTCTACAGG 2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTCCGGGAACGGCGAT 2150 TGGATCAACGGGGTAGTGAAAACG CGTTTTCACTACCCCGTTGATCCA 2151 AAGCGACGATGCTTTCTTGAGCTG CAGCGTACAACACGCGCGTT 2152 CACGGGCACGTGTTCTAGGCTTG CAGCGTAGAAAAGCATCGTCCCGTT 2153 ACGGCTGGGACAAAGAACTAGAAA TITCTAGCTCTTTGCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGAACACGTGCCCGTG 2155 ACTCTGGCTGTTGGCGAACGTGAC GTCACATCGACCCGTG 2156 GACCGAGGACCAAGAACTAGAAA TITCTAGCTCTTTGTCCCAGCCCGT 2157 AGTAGCTCTGCCGCTCTCACATC GATGTGAGAACGCAACGC	10	2138	TCCTGCAGATCATCTCGTGTCTGG	CCAGACACGAGATGATCTGCAGGA
2141 TITICGGCAGAATCTCCGATTCAAC GITGAATCGGAGATTCTGCCGAAA 2142 TGGCGAGCAGACCTACAAGACAGA TCTGTCTTGTAGGTCTGCCCA 2143 GGCGACAGACCGGTACATCGGCCA TGGCCGATGTACCGGTCTGTCGCC 2144 TCTAGACCTGCGTTTCGTGGGACC GGTCCCACGAAACGCAGGTCTAGA 2145 GCCGAGCGTGGTACCCTACGTTCA TGAACGTATGGTACCACGCTCGGC 2146 TAATCACACCCGCTTTCTGTGGCT AGCCACAGAAAGCGGGTGTGATTA 2147 GGCCGGAGCCTTGTGGCT AGCCACAGAAAGCGGTCTGATA 2148 ATCGCCGTCTCTGTGGCT AGCCACAGAAAGCGGTCTGGCC 2148 CCTGTAGACCTGCATGGATCGCTT AGAAGGTTCCAATGGCTCCGGCC 2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTCGGGGAACGGCGAT 2150 TGGATCAACGGGGTAGTGAAAACG CGTTTTTTTTCGGGGAACGGCGAT 2151 AAGCGACGATGCTTTCTTGAGCTG CAGCGTCAAGAAAGCAGTGCCCGT 2152 CACGGGCACGTGTTCTACGCTTGC GCAGCGTAGAAAACCATGGCCCGTT 2153 ACGGCCTGGGACAAGAAGCATAGAAA TTTCTAACCTCTTTGCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGAACACACGTCCCCGTT 2155 ACTCTGGCTGTTGGCGAACATGAAA TTTCTAGCTCTTTGCCCAGCCCGT 2156 GACCGAGGACCAGTGCTTTCTTC GAGAGCAAGACCCAGAGCTACCC 2155 ACTCTGGCTGTTGGCGAACATGAAA TTTCTAGCTCTTTGCCCAGCCCGT 2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCCAACAGCCAGAGT 2158 TTCTTTGCCTGGGCCTAACCGCA TGCCGTTAGGCCCAACAGCCCAGAGT 2159 TTAGCAGGGAGCAGAGCAGACGCA TGCCGTTAGGCCCAAAGACTACT 2159 TTAGCAGGGAGCTAACGGC CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGCTGACCCCCC GGCGGACCAACACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGC GGCGGACCAACACCTCCCTGCTAA 2161 CTTCACACCCTGGAGCCACCAATG CATTGGTGGCCTCAAGCACACCTCCTTGCTAA 2162 GAGATCGATGAAACGCACCACCACCG CCGCTGGTGCCTTTCACTCC 2163 GGGTCCAACCACCACAAGC CACTGCTCTCCCCCAGGACAACCT 2164 CTTCACACCCCAGATAGGAATCA TTATCCCACACCAACTCTCGGCCC 2165 TGCCTCGCTTCTGTGTGAATTTACCA TTATCCCACACCAACTCTCTGGACCC 2166 GATCACACCCCCAGATAGGAATCA TTATCCCACACCAACTCTCGGCCGACACCCCCCCCAGATAGGAATCAC CTGTTTCATCTTGGGGCTGAACGCCC 2166 GATCACACCCCCAGATAGGAATCAC TTGTTACCGCGGACCGTTGATC 2167 ATGACGCCTTACATGACGCCCTTAACGG CCGTTATGCCGCGGACCGTTGATCCACCCCAGATTACGACCCTTACATGACGCCCTTACATGACGCCTTATTTCCACCCCCTATTACACCCCTTAGTTCACACCAACTATGCACGCCCTTAGTTCACACCAACTATGCACCCCCTTACACCCCCTTAGTTCACACCCAACTGTTACACGCCTTACATGACGCCCTTTACATGACGCCTTATTTCCACCCCCTTAGTTCCACCCCTTAGTTCACACCCTTAGTTCCACCCCTTAGTTCCACCCCTTA		2139	TGCGGGAGATTTGAACAAGCTGTA	TACAGCTTGTTCAAATCTCCCGCA
2142 TGGCGAGCAGACCTACAAGACAGA TCTGTCTTGTAGGTCTGCCCA 2143 GGCGACAGACCGGTACATCGGCCA TGGCCGATGTACCGGTCTGTCGCC 2144 TCTAGACCTGCGTTTCGTGGGACC GGTCCCACGAAACGCAGGTCTAGA 2145 GCCGAGCGTGGTACCATACGTTCA TGAACGTAGGTCCACGCTCGGC 2146 TAATCACACCCGCTTTCTGTGGCT AGCACACAGAAACGCAGGTCTAGA 2147 GGCCGGAGCCATTGGACACTTCTT AAGAAGTGTCCAATGGCTCCGGCC 2148 CCTGTAGACCTGCATGGATCGCTT CAGCGAGACAGCAGGTCCACGGC 2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTGCGGGAACGCGAT 2150 TGGATCAACGGGGTAGTAAAACG CGTTTTCACTACCCGTTGATCCA 2151 AAGCGACGATGTTTCTTGAGCTG CAGCGATCCATGCACGTGATCCA 2152 CACGGGCACGTGTTCTTAGAGCTG CAGCTCAAGAAAGCATCGTCGCTT 2152 CACGGGCACGTGTTCTTAGAGCTG CAGCTCAAGAAAGCATCGTCGCTT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTAGACACGTGCCCGT 2155 ACTCTGGCTGTTGCGCGAACGTGAC GTCACGTTGCCCAGCCCGT 2156 GACCGAGGACCAGTCCTTGCTCC GAGAGCAGAGCCAGGCCAG		2140	TTAGACGCCGAGCTAGGCAACGTC	GACGTTGCCTAGCTCGGCGTCTAA
15 2143 GGCGACAGACCGGTACATCGGCCA TGGCCGATGTACCGGTCTGTCGCC 2144 TCTAGACCTGCGTTTCGTGGGACC GGTCCCACGAAACGCAGGTCTAGA 2145 GCCGAGCGTGGTACCATACGTTCA TGAACGTATGGTACCACGCTCGGC 2146 TAATCACACCCGCTTTCTGTGGCT AGCCACAGAAAGCGGGTGTGATTA 2147 GGCCGGAGCCATTGGACACTTCTT AAGAAGTGTCCAATGGCTCCGGCC 2148 CCTGTAGACCTGCATGGATCGCTG CAGCGATCCATGCATGCACAGGC 2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTGCGGGAACGGCGAT 2150 TGGATCAACGGGGTAGTGAAAACG CGTTTTCACTACCCCGTTGATCCA 2151 AAGCGACGATGCTTTCTTGAGCTG CAGCTCAAGAAAGCATCGTCGCTT 2152 CACGGGCACGTGTTCTACGCTTGC GCAACGCTAGAAACACGTGCCCGTG 2153 ACGGGCTGGGACAAGAGCTAGAAA TTTCTAGCTCTTGTCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTAGAACACGTGCCCGTG 2155 ACTCTGGCTCTGCAACATC GATGTAGAACACGTGCCCGTC 2156 GACCGAGGACCAGTCCTTCACATC GATGTAGAGACACGTGCCCGTC 2157 AGTAGCTCTTGCGGCAACGTGAC GTCACGTTCGCCAACAGCCAAGAGCTACCAACACGTGCCCGTC 2157 AGTAGCTCTTGCGGCCAACAGGCA TGCCGTTAGGCCGAAGAGCTACT 2158 TTCTTTGTCCTGGGGGAACGAGC TGCCCGTTAGGCCGCAACAGACACACGTCCCGTCC		2141	TTTCGGCAGAATCTCCGATTCAAC	GTTGAATCGGAGATTCTGCCGAAA
2144 TCTAGACCTGCGTTTCGTGGGACC GGTCCCACGAAACGCAGGTCTAGA 2145 GCCGAGCGTGGTACCATACGTTCA TGAACGTATGGTACCACGCTCGGC 2146 TAATCACACCCGCTTTCTGTGGCT AGCCACAGAAAGCGGGTGTGATTA 2147 GGCCGGAGCCATTGGACACTTCTT AAGAAGTGTCCAATGGCTCCGGCC 2148 CCTGTAGACCTGCATGGATCGCTG CAGCGATCCATGAGGTCCAGGC 2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTGCGGGAACGGCGAT 2150 TGGATCAACGGGGTAGTAAAACG CGTTTTCACTACCCCGTTGATCCA 2151 AAGCGACGATGCTTTCTTGAGCTG CAGCTCAAGAAAGCATCGTCGCTT 2152 CACGGGCACGTGTTCTAGACTG CAGCTCAAGAAAGCATCGTCGCTT 2153 ACGGGCTGGGACAAGAGCTAGAAA TTTCTAGCTCTTTGCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGACCACGCCGT 2155 ACTCTGGCTGTTGCGCAACGTGAC GTCACGTTCGCCAACAGCAAGACAC 2157 AGTAGCTCTTGCGGACACGTGAC GTCACGTTCGCCAACAGCCAGAGT 2158 TTCTTGTCCTGGGGCAACGCAC TGCCGTTAGGCCGAACAGACAC 2159 TTAGCAGGGAGAGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGAGCAGTC CACTGCTCTCCCCCAGGACAAGAC 2160 AGAACCTGGATTGTACGCTCCGC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGCTCCAGCTTTCTC 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGCCTCAGGCTCTCAAAGCCAGCTTCTCCCCCAGGACAACCTCCCTGCTAA 2160 AGAACCTGGATTGTACGCTCCGCC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGCCTCAGGCTGTAAG 2162 GAGATCGATGAAACGCACCACGG CCGCTGGTGCGTTTCATCGATCTC 2163 GGGTCCAGAGTTGTGGGGTAAA TTATCCCACACCAACTCTCGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACCG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGGCCGGACAGCGACACCTCTCTCCCCAGGACCACCACCTCTCTCCCCAGGACCACCCAC		2142	TGGCGAGCAGACCTACAAGACAGA	TCTGTCTTGTAGGTCTGCTCGCCA
2145 GCCGAGCGTGGTACCATACGTTCA TGAACGTATGGTACCACGCTCGGC 2146 TAATCACACCCGCTTTCTGTGGCT AGCCACAGAAAGCGGGTGTGATTA 2147 GGCCGGAGCCATTGGACACTTCTT AAGAAGTGTCCAATGGCTCCGGCC 2148 CCTGTAGACCTGCATGGATCGCTG CAGCGATCCATGCAGGTCTACAGG 2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTGCGGGAACGGCGAT 2150 TGGATCAACGGGGTAGTGAAAACG CGTTTTCACTACCCCGTTGATCCA 2151 AAGCGACGATGCTTTCTTGAGCTG CAGCTCAAGAAAGCATCGTCGCTT 2152 CACGGGCACGTGTTCTACGCTTGC GCAAGCATAGACACGTGCCCGTG 2153 ACGGGCTGGGACAAGAGCTAGAAA TTTCTAGCTCTTTGCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGACACACGTGCCCGT 2155 ACTCTGGCTGTTGGCGAACGTGAC 2156 GACCGAGGACCAGTCCTTGCTCT GAGAGCAAGAGCTAGCT 2157 AGTAGCTCTTGCGGCCTAACAGCA TGCCGTTAGGCCCAACAGCCAGAGT 2158 TTCTTGTCCTGGGGCAACAGGCA TGCCGTTAGGCCGCAAGAGAA 2159 TTAGCAGGGAGGAGCAGTG CACTGCTCTCCCCCAGGACAAGAC 2160 AGAACGTGGATTGTACGCTCCGC GGCGGAGCGAACACTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGC GGCGGAGCGAACACTCCCTGCTAA 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGCCTTCTC 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGCCTGTAAG 2162 GAGATCGATGAAACGCACCAACG CCGTGGTGCTTTCATCGATCTC 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTCGGTCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGCGACACCC 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGCACCCCCCGGACCACCCCCCGGACCACC	15	2143	GGCGACAGACCGGTACATCGGCCA	TGGCCGATGTACCGGTCTGTCGCC
2146 TAATCACACCCGCTTTCTGTGGCT AGCCACAGAAAGCGGGTGTGATTA 2147 GGCCGGAGCCATTGGACACTTCTT AAGAAGTGTCCAATGGCTCCGGCC 2148 CCTGTAGACCTGCATGGATCGCTG CAGCGATCCATGCAGGTCTACAGG 2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTGCGGGAACGGCGAT 2150 TGGATCAACGGGGTAGTGAAAACG CGTTTTCACTACCCCGTTGATCCA 2151 AAGCGACGATGCTTTCTTGAGCTG CAGCTCAAGAAAGCATCGTCGCTT 2152 CACGGGCACGTGTTCTACGCTTGC GCAAGCAAAGCATCGTCGCTT 2153 ACGGGCTGGGACAAGAGGCTAGAAA TTTCTAGCTCTTGTCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGACACACGTGCCCGTG 2155 ACTCTGGCTGTTGGCGAACGTGAC GTCACGTTCGCCAACAACACGCCAGAGT 2156 GACCGAGGACCAGTCCTTGCTCTC GAGAGCAAGGACCAGGCCAGAGT 2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCCCAACAGCCAGAGT 2158 TTCTTGTCCTGGGGCAACGGCA TGCCGTTAGGCCCCAACAGACACACGCAAGAA 2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTAAG 2162 GAGATCGATGAAACGCACCAATG CATTGGTGGCTCCAGGCTGTAAG 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCAGATAGGAATCA GTGATTCATCTGGGCTGCACGG 2165 TGCCTTCGTTCTGAATCTACGA TCGTAGATTCACAGAACGCACGG 2166 GATCACAGCGTCCGCGCGATAACGG CCGTTATGCGCGGACGACCACCCACGACCACCCACCACCCAC		2144	TCTAGACCTGCGTTTCGTGGGACC	GGTCCCACGAAACGCAGGTCTAGA
2147 GGCCGGAGCCATTGGACACTTCTT AAGAAGTGTCCAATGGCTCCGGCC 2148 CCTGTAGACCTGCATGGATCGCTG CAGCGATCCATGCAGGTCTACAGG 2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTGCGGGAACGGCGAT 2150 TGGATCAACGGGGTAGTGAAAACG CGTTTTCACTACCCCGTTGATCCA 2151 AAGCGACGATGCTTTCTTGAGCTG CAGCTCAAGAAAGCATCGTCGCTT 2152 CACGGGCACGTGTTCTACGCTTGC GCAAGCGTAGAACACGTGCCCGTG 2153 ACGGGCTGGGACAAGAGCTAGAAA TTTCTAGCTCTTGTCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGACCAGGCCAGTTACC 2155 ACTCTGGCTGCTGCGAACGTGAC GTCACGTTCGCCAACAGCCAGAGT 2156 GACCGAGGACCAGTCCTTGCTCTC GAGGCAAGGACTGGTCCTCGGTC 2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCGCAACAGCCAGAGT 2158 TTCTTGTCCTGGGGCAACGTGAC GACGCCGCAACAGCCAGAGAA 2159 TTAGCAGGGAGGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGGAGCGAACACTCCTGCTAA 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTCATCAGACCCACACTCCTGCAACACCACACTCCTGCAACACCACACTCCTGCAACACCACACTCCCTGCAACACCACACTCCCTGCAACACCACACTCCCTGCAACACCACACTCCCCCAGAACCTCCCCCCCAGAACACCCACACTCCCCCCCC		2145	GCCGAGCGTGGTACCATACGTTCA	TGAACGTATGGTACCACGCTCGGC
2148 CCTGTAGACCTGCATGGATCGCTG CAGCGATCCATGCAGGTCTACAGG 2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTGCGGGAACGGCGAT 2150 TGGATCAACGGGGTAGTGAAAACG CGTTTTCACTACCCCGTTGATCCA 2151 AAGCGACGATGCTTTCTTGAGCTG CAGCTCAAGAAAGCATCGTCGCTT 2152 CACGGGCACGTGTTCTACGCTTGC GCAGCTCAAGAAAGCATCGTCGCTT 2153 ACGGGCTGGGACAAGAGCTAGAAA TTTCTAGCTCTTGTCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGAGCGAGCCAGTTACC 2155 ACTCTGGCTGCTGCGAACGTGAC GTCACGTTCGCCAACAGCCAGAGT 2156 GACCGAGGACCAGTCCTTGCTCTC 2157 AGTAGCTCTTGCGGCAACGTGAC GTCACGTTCGCCAACAGCCAGAGT 2158 TTCTTGTCCTGGGGGAAGCAGGC GAGCAAGACCTGGTCCTCGGTC 2159 TTAGCAGGGAGGAGGAGCAGT CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGAGCAGT CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGAGACCACCAATG CATTGGTGGCTCCAAGCTGTACAGCCGAAGACACCCCCCGGAGAACCTCCCTGCTAA 2162 GAGATCGATGAAACGCACCAACG CCGCTGGTGCGTTCACAGCCTGGACCAACCCACCCACCCA		2146	TAATCACACCCGCTTTCTGTGGCT	AGCCACAGAAAGCGGGTGTGATTA
2149 ATCGCCGTTCCCGCAAAATAAGCA TGCTTATTTTGCGGGAACGGCGAT 2150 TGGATCAACGGGGTAGTGAAAACG CGTTTTCATCACCCCGTTGATCCA 2151 AAGCGACGATGCTTTCTTGAGCTG CAGCTCAAGAAAGCATCGTCGCTT 2152 CACGGGCACGTGTTCTACGCTTGC GCAAGCGTAGAACACGTGCCCGTG 2153 ACGGGCTGGGACAAGAGCTAGAAA TTTCTAGCTCTTTGTCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGAGCGGAGCCAGTTACC 2155 ACTCTGGCTGTTGGCGAACGTGAC GTCACGTTCGCCAACAGCCAGAGT 2156 GACCGAGGACCAGTCCTTGCTCTC GAGAGCAAGGACTACGTCCTCGGTC 2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCGAAGAGCTACT 2158 TTCTTGTCCTGGGGGAGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTGAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCAGATCTC 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGACCC 2165 TGCCTCGCTTCTTGTGAATCTACGA TCGTAGATTCACAGAAGCGACGCACACCCAACTCTTGGACCC 2166 GATCACAGCGTCCGCCGCACAACGC CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT		2147	GGCCGGAGCCATTGGACACTTCTT	AAGAAGTGTCCAATGGCTCCGGCC
2150 TGGATCAACGGGGTAGTGAAAACG CGTTTTCACCCCGTTGATCCA 2151 AAGCGACGATGCTTTCTTGAGCTG CAGCTCAAGAAAGCATCGTCGCTT 2152 CACGGGCACGTGTTCTACGCTTGC GCAAGCGTAGAACACGTGCCCGTG 2153 ACGGGCTGGGACAAGAGCTAGAAA TTTCTAGCTCTTGTCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGAGCCAGAGCCAGTTACC 2155 ACTCTGGCTGTTGGCGAACGTGAC GTCACGTTCGCCAACAGCCAGAGT 2156 GACCGAGGACCAGTCCTTGCTCTC GAGAGCAAGGACTGGTCCTCGGTC 2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCGCAAGAGCTACT 2158 TTCTTGTCCTGGGGGAGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTCGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGACCC 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGACCAC 2166 GATCACAGCGTCCGCCGCATAACGG CCGTTATCACAGAAGCGACCAC 2166 GATCACAGCGTCCGCCCATAACGG CCGTTATGCGCGGACCACCTTGGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT	20	2148	CCTGTAGACCTGCATGGATCGCTG	CAGCGATCCATGCAGGTCTACAGG
2151 AAGCGACGATGCTTTCTTGAGCTG CAGCTCAAGAAAGCATCGTCGCTT  2152 CACGGGCACGTGTTCTACGCTTGC GCAAGCGTAGAACACGTGCCCGTG  2153 ACGGGCTGGGACAAGAGCTAGAAA TTTCTAGCTCTTGTCCCAGCCCGT  2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGAGCCAGAGCCAGTTACC  2155 ACTCTGGCTGTTGGCGAACGTGAC GTCACGTTCGCCAACAGCCAGAGT  2156 GACCGAGGACCAGTCCTTGCTCTC GAGAGCAAGGACTGGTCCTCGGTC  2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCGCAAGAGCTACT  2158 TTCTTGTCCTGGGGGAGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA  2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA  2160 AGAACGTGGATTGTACGCTCCGCC GGCGAGACAACCTCCCTGCTAA  2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTAAG  2162 GAGATCGATGAAACGCACCAATG CATTGGTGGCTCCAGGCTGTGAAG  2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC  2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGCTGACGG  2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGCA  2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC  2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT  40 2168 GCGTGGAATAACGCCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC		2149	ATCGCCGTTCCCGCAAAATAAGCA	TGCTTATTTTGCGGGAACGGCGAT
2152 CACGGCACGTGTTCTACGCTTGC GCAAGCGTAGAACACGTGCCCGTG 2153 ACGGGCTGGGACAAGAGCTAGAAA TTTCTAGCTCTTGTCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGAGCGAGCCAGTTACC 2155 ACTCTGGCTGTTGGCGAACGTGAC GTCACGTTCGCCAACAGCCAGAGT 2156 GACCGAGGACCAGTCCTTGCTCTC GAGAGCAAGGACTGGTCCTCGGTC 2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCGCAAGAGCTACT 30 2158 TTCTTGTCCTGGGGGAGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTGAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC 35 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGACCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT		2150	TGGATCAACGGGGTAGTGAAAACG	CGTTTTCACTACCCCGTTGATCCA
2153 ACGGGCTGGGACAAGAGCTAGAAA TITCTAGCTCTTGTCCCAGCCCGT 2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGAGCGAGCCAGTTACC 2155 ACTCTGGCTGTTGGCGAACGTGAC GTCACGTTCGCCAACAGCCAGAGT 2156 GACCGAGGACCAGTCCTTGCTCTC GAGAGCAAGGACTGGTCCTCGGTC 2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCGCAAGAGCTACT 2158 TTCTTGTCCTGGGGGAGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC 35 2163 GGGTCCAGAGTTGGTGTGGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGACGC 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT		2151	AAGCGACGATGCTTTCTTGAGCTG	CAGCTCAAGAAAGCATCGTCGCTT
2154 GGTAACTGGCTCCGCTCTCACATC GATGTGAGAGCGGAGCCAGTTACC 2155 ACTCTGGCTGTTGGCGAACGTGAC GTCACGTTCGCCAACAGCCAGAGT 2156 GACCGAGGACCAGTCCTTGCTCTC GAGAGCAAGGACTGGTCCTCGGTC 2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCGCAAGAGCTACT  30 2158 TTCTTGTCCTGGGGGAGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTGAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT		2152	CACGGGCACGTGTTCTACGCTTGC	GCAAGCGTAGAACACGTGCCCGTG
2155 ACTCTGGCTGTTGGCGAACGTGAC GTCACGTTCGCCAACAGCCAGAGT 2156 GACCGAGGACCAGTCCTTGCTCTC GAGAGCAAGGACTGGTCCTCGGTC 2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCGCAAGAGCTACT 2158 TTCTTGTCCTGGGGGAGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGCTGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT 40 2168 GCGTGGAATAACGCCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC	25	2153	ACGGCTGGGACAAGAGCTAGAAA	TTTCTAGCTCTTGTCCCAGCCCGT
2156 GACCGAGGACCAGTCCTTGCTCTC GAGAGCAAGGACTGGTCCTCGGTC 2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCGCAAGAGCTACT 30 2158 TTCTTGTCCTGGGGGAGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTGAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC 35 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT		2154	GGTAACTGGCTCCGCTCTCACATC	GATGTGAGAGCGGAGCCAGTTACC
2157 AGTAGCTCTTGCGGCCTAACGGCA TGCCGTTAGGCCGCAAGAGCTACT 2158 TTCTTGTCCTGGGGGAGAGCAGTG CACTGCTCTCCCCCAGGACAAGAA 2159 TTAGCAGGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTGAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC 35 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT		2155	ACTCTGGCTGTTGGCGAACGTGAC	GTCACGTTCGCCAACAGCCAGAGT
2158 TTCTTGTCCTGGGGGAGAGCAGTG CACTGCTCTCCCCAGGACAAGAA 2159 TTAGCAGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC 35 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT 40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC		2156	GACCGAGGACCAGTCCTTGCTCTC	GAGAGCAAGGACTGGTCCTCGGTC
2159 TTAGCAGGAGGTTGTCGGCTCAT ATGAGCCGACAACCTCCCTGCTAA 2160 AGAACGTGGATTGTACGCTCCGCC GGCGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTGAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC  35 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT 40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC		2157	AGTAGCTCTTGCGGCCTAACGGCA	TGCCGTTAGGCCGCAAGAGCTACT
2160 AGAACGTGGATTGTACGCTCCGCC GGCGGAGCGTACAATCCACGTTCT 2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTGAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC 35 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT 40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC	30	2158	TTCTTGTCCTGGGGGAGAGCAGTG	CACTGCTCTCCCCCAGGACAAGAA
2161 CTTCACAGCCTGGAGCCACCAATG CATTGGTGGCTCCAGGCTGTGAAG 2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC 2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT 40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC		2159	TTAGCAGGGAGGTTGTCGGCTCAT	ATGAGCCGACAACCTCCCTGCTAA
2162 GAGATCGATGAAACGCACCAGCGG CCGCTGGTGCGTTTCATCGATCTC  2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC  2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG  2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA  2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC  2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT  40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC		2160	AGAACGTGGATTGTACGCTCCGCC	GGCGGAGCGTACAATCCACGTTCT
2163 GGGTCCAGAGTTGGTGTGGGATAA TTATCCCACACCAACTCTGGACCC 2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT 40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC		2161	CTTCACAGCCTGGAGCCACCAATG	CATTGGTGGCTCCAGGCTGTGAAG
2164 CCGTCCACCCCAGATAGGAATCAC GTGATTCCTATCTGGGGTGGACGG 2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT 40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC		2162	GAGATCGATGAAACGCACCAGCGG	CCGCTGGTGCGTTTCATCGATCTC
2165 TGCCTCGCTTCTGTGAATCTACGA TCGTAGATTCACAGAAGCGAGGCA 2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT 40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC	35	2163	GGGTCCAGAGTTGGTGTGGGATAA	TTATCCCACACCAACTCTGGACCC
2166 GATCACAGCGTCCGCGCATAACGG CCGTTATGCGCGGACGCTGTGATC 2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT 40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC		2164	CCGTCCACCCCAGATAGGAATCAC	GTGATTCCTATCTGGGGTGGACGG
2167 ATGACGCCTTACATGACGCACCTT AAGGTGCGTCATGTAAGGCGTCAT 40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC	•	2165	TGCCTCGCTTCTGTGAATCTACGA	TCGTAGATTCACAGAAGCGAGGCA
40 2168 GCGTGGAATAACGCCCTTAGTTCA TGAACTAAGGGCGTTATTCCACGC		2166	GATCACAGCGTCCGCGCATAACGG	CCGTTATGCGCGGACGCTGTGATC
		2167	ATGACGCCTTACATGACGCACCTT	AAGGTGCGTCATGTAAGGCGTCAT
2169 GGTCTACCATTTCTCGCCCGACCG CGGTCGGGCGAGAAATGGTAGACC	40	2168	GCGTGGAATAACGCCCTTAGTTCA	TGAACTAAGGGCGTTATTCCACGC
		2169	GGTCTACCATTTCTCGCCCGACCG	CGGTCGGGCGAGAAATGGTAGACC

	2170	ACACCTCTCTGGCGTAGACGCTCA	TGAGCGTCTACGCCAGAGAGGTGT
	2171	GTAGAGGTGCTCAGGACTCGTCGC	GCGACGAGTCCTGAGCACCTCTAC
	2172	GTAAGCAGGAGGCGAAGGCGCGAA	TTCGCGCCTTCGCCTCCTGCTTAC
	2173	TCTAAGGGCCGTTTCAATCGACCT	AGGTCGATTGAAACGGCCCTTAGA
5	2174	AACCTGATTTCAGGGTCAGCCCGA	TCGGGCTGACCCTGAAATCAGGTT
	2175	GTCACGCGATTGGCCCACCTATTA	TAATAGGTGGCCAATCGCGTGAC
	2176	ACGATGCCGCGCATGTAACCTAGT	ACTAGGTTACATGCGCGGCATCGT
	2177	TGAGAGATGTCTCGTCAACGCCTG	CAGGCGTTGACGAGACATCTCTCA
	2178	GCATATCTCGCGGTGACAGACGAA	TTCGTCTGTCACCGCGAGATATGC
10	2179	GACCCAACGTCGAAATTGTGCGAT	ATCGCACAATTTCGACGTTGGGTC
	2180	TGAAAATCGGGGCATCTAGTTTGG	CCAAACTAGATGCCCCGATTTTCA
	2181	CCGCGAAAAGGATTTGTGTACGCA	TGCGTACACAAATCCTTTTCGCGG
	2182	CATTCCATTTATCCGCAGTTCGCT	AGCGAACTGCGGATAAATGGAATG
	2183	CCTGTCTGTCGAGCCAGCGTCTAT	ATAGACGCTGGCTCGACAGACAGG
15	2184	TCAGCGCGGCTAAACAAGTTATGC	GCATAACTTGTTTAGCCGCGCTGA
	2185	ACGCCTACGAACGACCCAAGAGAG	CTCTCTTGGGTCGTTCGTAGGCGT
	2186	TGCGCATCTACCATTGTGTGGATC	GATCCACACAATGGTAGATGCGCA
	2187	AAGTCCGCGCTCGCTCCTGTAATA	TATTACAGGAGCGAGCGCGGACTT
	2188	GCTGGGTCATTGCTCGAGTAACCA	TGGTTACTCGAGCAATGACCCAGC
20	2189	TGGAGCGTTCTGGCAATGACCGAC	GTCGGTCATTGCCAGAACGCTCCA
	2190	CAAGTCAATTCTTGGCCAATTCGG	CCGAATTGGCCAAGAATTGACTTG
	2191	CGTTCATGCAAGGATCCCAGGTTA	TAACCTGGGATCCTTGCATGAACG
	2192	ATGCCAATAGAAGCTGGGGATGCT	AGCATCCCCAGCTTCTATTGGCAT
	2193	CCTAACTCTCCCTTGAGGCCGTTC	GAACGCCTCAAGGGAGAGTTAGG
25	2194	ATCTCGGCGAAGGTTCCAAACATT	AATGTTTGGAACCTTCGCCGAGAT
	2195	GCGACAGATTACGCTGCGGTTTTC	GAAAACCGCAGCGTAATCTGTCGC
	2196	AAGCCCAGACGCCAACACGTTAC	GTAACGTGTTGGCCGTCTGGGCTT
	2197	TCAAGTTCAAATCACATCCCGTGG	CCACGGGATGTGATTTGAACTTGA
	2198	GATTGTCGTTCTGTCAGGCG	CGCCTCACAGACAGAACGACAATC
30	2199	ACCGAACTATGTTCCGGCATGGCA	TGCCATGCCGGAACATAGTTCGGT
	2200	CGTCATCGGGTGTGCAATGCCGTT	AACGGCATTGCACACCCGATGACG
	2201	CGGACGGAGTCACGTTTGTGCACT	AGTGCACAAACGTGACTCCGTCCG
	2202	TAAACAAGTCGTGTGCCTTTGCCG	CGGCAAAGGCACACGACTTGTTTA
	2203	TAATTACTGGCCTGTGGAGCAGGC	GCCTGCTCCACAGGCCAGTAATTA
35	2204	GGAGCGGCCCGAATGGTGCTCTTA	TAAGAGCACCATTCGGGCCGCTCC
	2205	ACTAAGCAAGGCTTGGATGTGCGT	ACGCACATCCAAGCCTTGCTTAGT
	2206	GGCAGCTCAGCGGCAGTACGCTAC	GTAGCGTACTGCCGCTGAGCTGCC
	2207	GCGAGGCGAATTATCCGCGGATTT	AAATCCGCGGATAATTCGCCTCGC
	2208	CATACGACACCCTTGGGGTGCTA	TAGCACCCAAGGTGTGTCGTATG
40	2209	TGCTTGGGCTTTAAACCCCGTTTT	AAAACGGGGTTTAAAGCCCAAGCA
	2210	CCGGTTGGAAAACGCAAATATCGG	CCGATATTTGCGTTTTCCAACCGG

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	2211	AAACTAGCTAGCCGCACCCGCAAG	CTTGCGGGTGCGGCTAGCTAGTTT
	2212	GTTGTTCCACCAGTGATCACGCAG	CTGCGTGATCACTGGTGGAACAAC
	2213	GCCGCTGACAAGATGATCATCGTT	AACGATGATCATCTTGTCAGCGGC
	2214	CTTTCATAAAGCCAACCGATGCCC	GGGCATCGGTTGGCTTTATGAAAG
5	2215	CTGACTGCATCTCGAAAGCGGGTG	CACCCGCTTTCGAGATGCAGTCAG
	2216	ATTTCTTCGGAGAATCGGCCACGT	ACGTGGCCGATTCTCCGAAGAAAT
	2217	CATTTCGGGCCCTAGCTACTGCGC	GCGCAGTAGCTAGGGCCCGAAATG
	2218	CCGATCCCGCACATCCGTATCCTG	CAGGATACGGATGTGCGGGATCGG
	2219	TATCACCGGGAGCGTCTTATCGTG	CACGATAAGACGCTCCCGGTGATA
10	2220	TAGGGCTCGTGCACCGATTAGAGG	CCTCTAATCGGTGCACGAGCCCTA
	2221	GCGTGGCACTCGCTTGTCTAGGTA	TACCTAGACAAGCGAGTGCCACGC
•	2222	CTCAACGAACTCAAGGGCCGCTAC	GTAGCGGCCCTTGAGTTCGTTGAG
	2223	AGCCTGGTATCGACCAATCCTGCA	TGCAGGATTGGTCGATACCAGGCT
	2224	TACGCGTTCTAGTTGGCCGGATCC	GGATCCGGCCAACTAGAACGCGTA
15	2225	TTTATGGGTTTGTGCCTGATGGGT	ACCCATCAGGCACAAACCCATAAA
	2226	GGGACCCCTAGCAACGTCACCTTA	TAAGGTGACGTTGCTAGGGGTCCC
	2227	CTGCCTCCCAGGAGTCATTGGAT	ATCCAATGACTCCTGGGGAGGCAG
	2228	AACCCCGCAAGACCAGTACCAATC	GATTGGTACTGGTCTTGCGGGGTT
	2229	GGTCACATACGCGCTAAAAAGCGC	GCGCTTTTTAGCGCGTATGTGACC
20	2230	AAATGGCTCCGACCAGTTAGGGAC	GTCCCTAACTGGTCGGAGCCATTT
	2231	AACGCGGCACGCTTAAAGGTGCAT	ATGCACCTTTAAGCGTGCCGCGTT
	2232	GATCGCACGCCGATTAACCTTACA	TGTAAGGTTAATCGGCGTGCGATC
	2233	CCTCCTGATTGGGAGTGCGGAATT	AATTCCGCACTCCCAATCAGGAGG
	2234	CGGAGGGTAATAGGCTCCTCTGCG	CGCAGAGGAGCCTATTACCCTCCG
25	2235	ACAAGAACTGGACATTACCGCGGG	CCCGCGGTAATGTCCAGTTCTTGT
	2236	TGTCGTCTTAAAGGCCTTTGTGCG	CGCACAAAGGCCTTTAAGACGACA
	2237	GGTGACCATGTGGCGTTTTAGCTT	AAGCTAAAACGCCACATGGTCACC
	2238	CACGGTTGCGCACGGTACCAGAAC	GTTCTGGTACCGTGCGCAACCGTG
	2239	CCTTTATTGTTTGGTCCCCTGCCC	GGGCAGGGGACCAAACAATAAAGG
30	2240	GTGCGCCTGCATTCTACCGTCAAT	ATTGACGGTAGAATGCAGGCGCAC
	2241	GTTTACGTTGATGGCTTGCCGCCG	CGGCGGCAAGCCATCAACGTAAAC
	2242	CCGTCGGTGGTAGGACGTGAATGT	ACATTCACGTCCTACCACCGACGG
	2243	TGATCGCCCAGAATCCCTGTGCT	AGCACAGGGATTCTGGGGCGATCA
	. 2244	AAGCAGCCAAAAATCGGTTGCTTT	AAAGCAACCGATTTTTGGCTGCTT
35	2245	CGACGGACTTAGTAGCAGGGCCT	AGGCCCTGCTACTAAGTCCCGTCG
	2246	CCGATTCGCGAAACGACCAAGTAG	CTACTTGGTCGTTTCGCGAATCGG
	2247	CCACCCAACTCCAATCTTTCTCA	TGAGAAAGATTGGAGTTGGGGTGG
	2248	GTGCAGTAGACGACTACCGGCGTC	GACGCCGGTAGTCGTCTACTGCAC
	2249	TTCGCCCATCGTATCAAGCAATTC	GAATTGCTTGATACGATGGGCGAA
40	2250	GAATCGCGACTACCCGTCGGGTCA	TGACCCGACGGGTAGTCGCGATTC
	2251	CCAGCACTCGCCATCGGTTATAAT	ATTATAACCGATGGCGAGTGCTGG

_			<u>,</u>
	2252	CGAACCGTAGAACTCCGGTCGGTG	CACCGACCGGAGTTCTACGGTTCG
	2253	GCACCATGACAGAGCCCCAGGATG	CATCCTGGGGCTCTGTCATGGTGC
	2254	TGGGCTACCGCAGAATAAGGGTGA	TCACCCTTATTCTGCGGTAGCCCA
	2255	TGGCCTGTCGTGTCGAAGGAAACA	TGTTTCCTTCGACACGACAGGCCA
· 5	2256	GCCTCACCGATAGCGAGCGTTTGC	GCAAACGCTCGCTATCGGTGAGGC
	2257	GTGCGCGCCGGCTAAAACGAGACA	TGTCTCGTTTTAGCCGGCGCGCAC
l	2258	CCGCAGACGAGTTTCTTGTGACAG	CTGTCACAAGAAACTCGTCTGCGG
	2259	GTTCGCAATCGCGTGCTAGGAAGC	GCTTCCTAGCACGCGATTGCGAAC
	2260	TGTTGTACACATGCATCCGGTGAA	TTCACCGGATGCATGTGTACAACA
10	2261	CACTGAACACGATATAAGGGCGCG	CGCGCCCTTATATCGTGTTCAGTG
	2262	CGCGATGGTTCTTAGCAAGACGAT	ATCGTCTTGCTAAGAACCATCGCG
	2263	TACACCAAGGAAGAAATGGGGACG	CGTCCCCATTTCTTCCTTGGTGTA
	2264	CGTGCCTTGCGTTTTAGGTGCAGC	GCTGCACCTAAAACGCAAGGCACG
	2265	GTCGTTTGTCTGGGCATTAACGGC	GCCGTTAATGCCCAGACAAACGAC
15	2266	CAGGCTCTCGTTCGGTACAAACGT	ACGTTTGTACCGAACGAGAGCCTG
	2267	CGGACACTGTTTCACCAGAACCCA	TGGGTTCTGGTGAAACAGTGTCCG
	2268	TACCCATGATGCGGAAGAAGCGTA	TACGCTTCTTCCGCATCATGGGTA
	2269	CTGTCCTTAAGCGGATGAGAACCG	CGGTTCTCATCCGCTTAAGGACAG
	2270	CGGGAGATGAGAACGGTTTTGTGC	GCACAAAACCGTTCTCATCTCCCG
20	2271	TAGATCGCGACTGTACTCAGGCCG	CGGCCTGAGTACAGTCGCGATCTA
	2272	TAAAACAGTTCGCGCGACTGTCGT	ACGACAGTCGCGCGAACTGTTTTA
	2273	CGAGGAGCTCCACATAAGCCCAAT	ATTGGGCTTATGTGGAGCTCCTCG
•	2274	TGGCTAGGGATGGGGAATCATCTT	AAGATGATTCCCCATCCCTAGCCA
	2275	AGGATTGGGTGCCTGGATGCATTG	CAATGCATCCAGGCACCCAATCCT
25	2276	TGTATCTACCGGCCTGAAGCAGGT	ACCTGCTTCAGGCCGGTAGATACA
	2277	TCCCTACGCGCATGACTCGCTTAC	GTAAGCGAGTCATGCGCGTAGGGA
	2278	TGGTCGATCACCTGTGACAGACGC	GCGTCTGTCACAGGTGATCGACCA
	2279	TGGGGTAGTCCATGCATCAATTG	CAATTGATGCATGGACTACCCCCA
	2280	CCCTGCCAGGATTACTATTCCGGA	TCCGGAATAGTAATCCTGGCAGGG
30	2281	TCCCGCACGGGGAATTTAAGTAGA	TCTACTTAAATTCCCCGTGCGGGA
	2282	GTGATGTGCAGGAACTTCTGTCGC	GCGACAGAAGTTCCTGCACATCAC
	2283	ATTTAGGCATGCATGCGCTTCTCA	TGAGAAGCGCATGCATGCCTAAAT
	2284	TTCGGCGCTAGTGGACGCCGTCAA	TTGACGCCGTCCACTAGCGCCGAA
	2285	GAGCTTCATCTCATCAGTTCCGCG	CGCGGAACTGATGAGATGAAGCTC
35	2286	GACAACTCCACTGCTCCAATCGCA	TGCGATTGGAGCAGTGGAGTTGTC
	2287	GGCCAAGGATGGACCTTACGATGG	CCATCGTAAGGTCCATCCTTGGCC
	2288	GGTTCCGGAATTTGTCACCGCTTC	GAAGCGGTGACAAATTCCGGAACC
	2289	GCGCTGGATAGTCTGCGAGAAGCC	GGCTTCTCGCAGACTATCCAGCGC
	2290	TGAGTCCAGTGCTGCCACCATGAA	TTCATGGTGGCAGCACTGGACTCA
40	2291	TTGAATTGGGTGTCGGAGCGTTCT	AGAACGCTCCGACACCCAATTCAA
	2292	CGGCGGCAGACAATGCTTTGAAC	GTTCAAAGCATTGTCTGCCCGCCG

5	2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305	GGGTCTGTCAAAGAGGGTGTCTGG CTTTGTGCAAGACGAAGCACCCTT ATCGAATTCCGAGGAGGTCTCCAT TCCGACCCTCAGAGTCGACTCATT ATCAACGGCCACCTCCTCGCCGAG AGCCACGGAATAATTCCGTCCACC GATCGCTTGCGTATCGCAAAGACT TCCACGCCTTACCATCAACTGCAA GCCAAGCGATAGGCCAGAACTCAG AGCGTGTGGGTCATTTAGCACGA GTTATGCGCGGCTTACCATGCAC TCTGTCCACGTAACTTGCACGA TCTGTCCACGTAACTTGCTGCAC TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT ACATGGCAGACTAACAGGCCTCGC	CCAGACACCCTCTTTGACAGACCC  AAGGGTGCTTCGTCTTGCACAAAG  ATGGAGACCTCCTCGGAATTCGAT  AATGAGTCGACTCTGAGGGTCGGA  CTCGGCGAGGAGGTGGCCGTTGAT  GGTGGACGGAATTATTCCGTGGCT  AGTCTTTGCGATACGCAAGCGATC  TTGCAGTTGATGGTAAGGCGTGGA  CTGAGTTCTGGCCTATCGCTTGGC  TCGTGCTAAAATGACCCACACGCT  TCGAACTCGTAAGCCGCGCATAAC  CTGCAGGCAAGTTACGTGGACAGA  AGAGGTATGATCATTGGCTGCCGA  AAACACAGGACCGGATCGGCTTA
5	2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308	ATCGAATTCCGAGGAGGTCTCCAT TCCGACCCTCAGAGTCGACTCATT ATCAACGGCCACCTCCTCGCCGAG AGCCACGGAATAATTCCGTCCACC GATCGCTTGCGTATCGCAAAGACT TCCACGCCTTACCATCAACTGCAA GCCAAGCGATAGGCCAGAACTCAG AGCGTGTGGGTCATTTTAGCACGA GTTATGCGCGGCTTACCATTGCAGATCTGCACTCAGATCTGCACGATCTGCAGATCTGCACGATCTGCACGATCTGCACGATCTGCACGATCTGCACGATCGACTCGACTCGACTCGACTCGACTCGACTCGACTCGACTCGACTCGACTCGACTCGACTCGACTCGCACTCGCACTCGCACTCGCACTCCTCTTAAGCCCGATCCGGTCCTGTGTTT	ATGGAGACCTCCTCGGAATTCGAT AATGAGTCGACTCTGAGGGTCGGA CTCGGCGAGGAGGGGTGGCCGTTGAT GGTGGACGGAATTATTCCGTGGCT AGTCTTTGCGATACGCAAGCGATC TTGCAGTTGATGGTAAGGCGTGGA CTGAGTTCTGGCCTATCGCTTGGC TCGTGCTAAAATGACCCACACGCT TCGAACTCGTAAGCCGCGCATAAC CTGCAGGCAAGTTACGTGGACAGA AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
5	2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308	TCCGACCCTCAGAGTCGACTCATT ATCAACGGCCACCTCCTCGCCGAG AGCCACGGAATAATTCCGTCCACC GATCGCTTGCGTATCGCAAAGACT TCCACGCCTTACCATCAACTGCAA GCCAAGCGATAGGCCAGAACTCAG AGCGTGTGGGTCATTTTAGCACGA GTTATGCGCGGCTTACGAGTTCGA TCTGTCCACGTAACTTGCCTGCAG TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT	AATGAGTCGACTCTGAGGGTCGGA CTCGGCGAGGAGGAGGTGGCCGTTGAT GGTGGACGGAATTATTCCGTGGCT AGTCTTTGCGATACGCAAGCGATC TTGCAGTTGATGGTAAGGCGTGGA CTGAGTTCTGGCCTATCGCTTGGC TCGTGCTAAAATGACCCACACGCT TCGAACTCGTAAGCCGCGCATAAC CTGCAGGCAAGTTACGTGGACAGA AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
5	2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308	ATCAACGGCCACCTCCTCGCCGAG AGCCACGGAATAATTCCGTCCACC GATCGCTTGCGTATCGCAAAGACT TCCACGCCTTACCATCAACTGCAA GCCAAGCGATAGGCCAGAACTCAG AGCGTGTGGGTCATTTTAGCACGA GTTATGCGCGGCTTACGAGTTCGA TCTGTCCACGTAACTTGCCTGCAG TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT	CTCGGCGAGGAGGTGGCCGTTGAT GGTGGACGGAATTATTCCGTGGCT AGTCTTTGCGATACGCAAGCGATC TTGCAGTTGATGGTAAGGCGTGGA CTGAGTTCTGGCCTATCGCTTGGC TCGTGCTAAAATGACCCACACGCT TCGAACTCGTAAGCCGCGCATAAC CTGCAGGCAAGTTACGTGGACAGA AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
5	2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308	AGCCACGGAATAATTCCGTCCACC GATCGCTTGCGTATCGCAAAGACT TCCACGCCTTACCATCAACTGCAA GCCAAGCGATAGGCCAGAACTCAG AGCGTGTGGGTCATTTTAGCACGA GTTATGCGCGGCTTACGAGTTCGA TCTGTCCACGTAACTTGCCTGCAG TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT	GGTGGACGGAATTATTCCGTGGCT AGTCTTTGCGATACGCAAGCGATC TTGCAGTTGATGGTAAGGCGTGGA CTGAGTTCTGGCCTATCGCTTGGC TCGTGCTAAAATGACCCACACGCT TCGAACTCGTAAGCCGCGCATAAC CTGCAGGCAAGTTACGTGGACAGA AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
5	2299 2300 2301 2302 2303 2304 2305 2306 2307 2308	GATCGCTTGCGTATCGCAAAGACT TCCACGCCTTACCATCAACTGCAA GCCAAGCGATAGGCCAGAACTCAG AGCGTGTGGGTCATTTTAGCACGA GTTATGCGCGGCTTACGAGTTCGA TCTGTCCACGTAACTTGCCTGCAG TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT	AGTCTTTGCGATACGCAAGCGATC TTGCAGTTGATGGTAAGGCGTGGA CTGAGTTCTGGCCTATCGCTTGGC TCGTGCTAAAATGACCCACACGCT TCGAACTCGTAAGCCGCGCATAAC CTGCAGGCAAGTTACGTGGACAGA AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
5	2300 2301 2302 2303 2304 2305 2306 2307 2308	TCCACGCCTTACCATCAACTGCAA GCCAAGCGATAGGCCAGAACTCAG AGCGTGTGGGTCATTTTAGCACGA GTTATGCGCGGCTTACGAGTTCGA TCTGTCCACGTAACTTGCCTGCAG TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT	TTGCAGTTGATGGTAAGGCGTGGA CTGAGTTCTGGCCTATCGCTTGGC TCGTGCTAAAATGACCCACACGCT TCGAACTCGTAAGCCGCGCATAAC CTGCAGGCAAGTTACGTGGACAGA AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
5	2301 2302 2303 2304 2305 2306 2307 2308	GCCAAGCGATAGGCCAGAACTCAG AGCGTGTGGGTCATTTTAGCACGA GTTATGCGCGGCTTACGAGTTCGA TCTGTCCACGTAACTTGCCTGCAG TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT	CTGAGTTCTGGCCTATCGCTTGGC TCGTGCTAAAATGACCCACACGCT TCGAACTCGTAAGCCGCGCATAAC CTGCAGGCAAGTTACGTGGACAGA AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
5	2302 2303 2304 2305 2306 2307 2308	AGCGTGTGGGTCATTTTAGCACGA GTTATGCGCGGCTTACGAGTTCGA TCTGTCCACGTAACTTGCCTGCAG TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT	TCGTGCTAAAATGACCCACACGCT TCGAACTCGTAAGCCGCGCATAAC CTGCAGGCAAGTTACGTGGACAGA AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
5	2303 2304 2305 2306 2307 2308	GTTATGCGCGGCTTACGAGTTCGA TCTGTCCACGTAACTTGCCTGCAG TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT	TCGAACTCGTAAGCCGCGCATAAC CTGCAGGCAAGTTACGTGGACAGA AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
	2304 2305 2306 2307 2308	TCTGTCCACGTAACTTGCCTGCAG TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT	CTGCAGGCAAGTTACGTGGACAGA AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
	2305 2306 2307 2308	TCGGCAGCCAATGATCATACCTCT TAAGCCCGATCCGGTCCTGTGTTT	AGAGGTATGATCATTGGCTGCCGA AAACACAGGACCGGATCGGGCTTA
	2306 2307 2308	TAAGCCCGATCCGGTCCTGTGTTT	AAACACAGGACCGGATCGGGCTTA
	2307 2308		
	2308	ACATGGCAGACTAACAGGCCTCGC	OCCADOCATOTTA OTOTOOCATOT
10			GCGAGGCCTGTTAGTCTGCCATGT
10	2309	CATGGCTGCACTCTAAGTCGAACG	CGTTCGACTTAGAGTGCAGCCATG
20		TCTTCAACCCACGCGGAACGATTG	CAATCGTTCCGCGTGGGTTGAAGA
10	2310	CTCGTGTCTCCAGAGGATTGTCCC	GGGACAATCCTCTGGAGACACGAG
20	2311	TGAAGGCATCAACCCAGAGGATTT	AAATCCTCTGGGTTGATGCCTTCA
	2312	ACAGCTCGAAGGCAGCCACATTGG	CCAATGTGGCTGCCTTCGAGCTGT
	2313	ACAACGAGTACCGCGACAGAAGGG	CCCTTCTGTCGCGGTACTCGTTGT
	2314	ATAACCGAAAAACCAGCCTGCGAT	ATCGCAGGCTGGTTTTTCGGTTAT
	2315	ACAACTCAGCACTTTCGACGTCCA	TGGACGTCGAAAGTGCTGAGTTGT
	2316	CGGGTTACTGGGTATCACCAATGC	GCATTGGTGATACCCAGTAACCCG
25	2317	CATCGGTTATCGCTGCACGCGCGT	ACGCGCGTGCAGCGATAACCGATG
	2318	GAAGGAATCCCGGATAGTCCGTGG	CCACGGACTATCCGGGATTCCTTC
	2319	GCATGGTCTCAGCCAAAGAACCTG	CAGGTTCTTTGGCTGAGACCATGC
	2320	AGCCTGCGACGTTTCCCGACAGAC	GTCTGTCGGGAAACGTCGCAGGCT
	2321	AAGAAAGGCGCACGGGATCGATAT	ATATCGATCCCGTGCGCCTTTCTT
30	2322	TGTCGCGAAGCCAACTTTCAGTAA	TTACTGAAAGTTGGCTTCGCGACA
	2323	GCGGCATGCAAGGTAGGTCTGGAT	ATCCAGACCTACCTTGCATGCCGC
	2324	GGTGGCCATCTCCTCGAATTGCAT	ATGCAATTCGAGGAGATGGCCACC
	2325	GCGTGCATAAGTTGCACATTGTGC	GCACAATGTGCAACTTATGCACGC
-	2326	TTGAGGTAGCGTTTTCGCGCATAT	ATATGCGCGAAAACGCTACCTCAA
35	2327	ATCCCACTTGTGAGAGGGCGCATT	AATGCGCCCTCTCACAAGTGGGAT
	2328	CGGTCAGCGAGCAGACATCAACCT	AGGTTGATGTCTGCTCGCTGACCG
.	2329	GCGTATCTTCGGGTCGAACACTTG	CAAGTGTTCGACCCGAAGATACGC
<u> </u>	2330	ATGCCATTGAACTCGCACTTTGCG	CGCAAAGTGCGAGTTCAATGGCAT
}	2331	CGATTCCCATCATAATGTGGGTCC	GGACCCACATTATGATGGGAATCG
40	2001	CAATTTGGATAATCCAGCCACGCC	GGCGTGGCTGGATTATCCAAATTG
~  -	2332	CGGCTTACCCTATGATTCCGTGCA	TGCACGGAATCATAGGGTAAGCCG

	2334	GGTGGACCATGCGCTGTGGTATGA	TCATACCACAGCGCATGGTCCACC
	2335	TATTTGTCGAAGATCGCAAGCGCC	GGCGCTTGCGATCTTCGACAAATA
	2336	GTCAGTGGGTTTTGAGAGCCCGCA	TGCGGGCTCTCAAAACCCACTGAC
	2337	AGGGGTCGGGAAATCTGACAAAA	TTTTGTCAGATTTCCCGACCCCCT
5	2338	TGCTTGCTATCCGAAAAAAGCAGG	CCTGCTTTTTCGGATAGCAAGCA
	2339	TTATCGGATCAAATTCGGCTTCGG	CCGAAGCCGAATTTGATCCGATAA
	2340	TGCAGCAACGAGTTACCCGGACTT	AAGTCCGGGTAACTCGTTGCTGCA
	2341	TATACATGTCCGGAGGGGCACCCA	TGGGTGCCCCTCCGGACATGTATA
	2342	TGCAAAACCGGAGGATGAACCCTT	AAGGGTTCATCCTCCGGTTTTGCA
10	2343	TCGGTCTAATGTCCACGCAGACAC	GTGTCTGCGTGGACATTAGACCGA
	2344	ATGTGTTTGCCACGCGCTCCTATT	AATAGGAGCGCGTGGCAAACACAT
	2345	TGGCGAGGCACGGCTCTAATTCGG	CCGAATTAGAGCCGTGCCTCGCCA
	2346	GCGACGACCGAGCGACTTTTACA	TGTAAAAGTCGCTCGGGTCGTCGC
	2347	CTCAGAGAGTCTATCCGGCGCCCT	AGGGCGCCGGATAGACTCTCTGAG
15	2348	GGAACATCTCCTGGGTCCCTCAGA	TCTGAGGGACCCAGGAGATGTTCC
	2349	GCAACGCAGGGAAGTACTTAGCGA	TCGCTAAGTACTTCCCTGCGTTGC
	2350	TGACTTGGGCGGACAAAGAAACGC	GCGTTTCTTTGTCCGCCCAAGTCA
	2351	AGATCATCGGGACGCTTCATGCTA	TAGCATGAAGCGTCCCGATGATCT
	2352	CCCTTCTGACCGCTAAGGCCATAA	TTATGGCCTTAGCGGTCAGAAGGG
20	2353	CGTGAGCCGTGGGGTGTCTCTGTA	TACAGAGACACCCCACGGCTCACG
	2354	TACCTTGGTCGTCTCCGCTTTTGT	ACAAAAGCGGAGACGACCAAGGTA
	2355	TCGCCGCAAAATGCTACGTGAAAA	TTTTCACGTAGCATTTTGCGGCGA
	2356	GAGTGACCTAATGGCTGCCCGACT	AGTCGGGCAGCCATTAGGTCACTC
	2357	AAAGGAACTTGGCCAACCCTATGG	CCATAGGGTTGGCCAAGTTCCTTT
25	2358	TGTTTTCGCACTCCACCTAATCGC	GCGATTAGGTGGAGTGCGAAAACA
	2359	CAATGGGTTTCATAAGGGCAGGCA	TGCCTGCGCTTATGAAACCCATTG
	2360	GCCTAACACACAAGGGTCCCTCTG	CAGAGGGACCCTTGTGTGTTAGGC
	2361	CGTCATGCGGTCCGAGGATCGATC	GATCGATCCTCGGACCGCATGACG
	2362	CCACACGGGCACGGAGTAATATCT	AGATATTACTCCGTGCCCGTGTGG
30	2363	CATCAGACATAGGTCGCGTGCCGA	TCGGCACGCGACCTATGTCTGATG
	2364	AGATGAAACCAAGGGAGGACGCAG	CTGCGTCCTCCCTTGGTTTCATCT
	2365	GGCTACCCATAGGCTCAGCAGCAC	GTGCTGCTGAGCCTATGGGTAGCC
	2366	GGCTTGTGAGGGTGTGTTCTCGAC	GTCGAGAACACACCCTCACAAGCC
	2367	TGTGTTACGGCGAATGCAACAGTC	GACTGTTGCATTCGCCGTAACACA
35	2368	CGATAACAGGTCGCGCCGTTACTA	TAGTAACGGCGCGACCTGTTATCG
	2369	TGATAAAGTGAGGCTCCAGCGCGA	TCGCGCTGGAGCCTCACTTTATCA
	2370	AATTGTGCACGGATCTGCACGGCG	CGCCGTGCAGATCCGTGCACAATT
	2371	GCAATGTACTGTCACCAGTGGCGA	TCGCCACTGGTGACAGTACATTGC
	2372	GGCATATCGGTAACACTTGGTCGG	CCGACCAAGTGTTACCGATATGCC
40	2373	GGGTCTCAAACCAGCGTGGCCGCT	AGCGGCCACGCTGGTTTGAGACCC
	2374	GTCTCCGGGACCATTGAGCTGGAG	CTCCAGCTCAATGGTCCCGGAGAC

	2375	GGCCTTCGGCATTCAGACGGGTTG	CAACCCGTCTGAATGCCGAAGGCC
	2376	CGTGATAGGCCACAGCGCTCAATT	AATTGAGCGCTGTGGCCTATCACG
	2377	GGCAGGCCCGCGAGGATGATTAAC	GTTAATCATCCTCGCGGGCCTGCC
	2378	CGGGTATGGTTGATAACAGCGTGG	CCACGCTGTTATCAACCATACCCG
5	2379	ACGACGTCCTTGGGACCGTATTGT	ACAATACGGTCCCAAGGACGTCGT
	2380	CTGATATCGAGCCTGAGCCTTTCG	CGAAAGGCTCAGGCTCGATATCAG
	2381	TCCCATTGGCCTGTATGCTGGCCT	AGGCCAGCATACAGGCCAATGGGA
	2382	GTGTCGTCGATTGTTTCATCGACG	CGTCGATGAAACAATCGACGACAC
	2383	CGAAAGCCAGTAGCCGATTGCGTG	CACGCAATCGGCTACTGGCTTTCG
10	2384	GGTTCGGCTTATTCCACTGCGACA	TGTCGCAGTGGAATAAGCCGAACC
	2385	AGCGAGGGCTAACTTTTTAACGCG	CGCGTTAAAAAGTTAGCCCTCGCT
	2386	CGGCGCTGATGACGGGACTCGATT	AATCGAGTCCCGTCATCAGCGCCG
	2387	TCACAGTGCTCGGCGTAAGGACTA	TAGTCCTTACGCCGAGCACTGTGA
	2388	CCCATTACGAGCACACACCATGGC	GCCATGGTGTGTGCTCGTAATGGG
15	2389	GGCCGCTAATCTTTACGCATCACG	CGTGATGCGTAAAGATTAGCGGCC
	2390	ACGGCTTCCTAGTGTCCAGCCCTT	AAGGGCTGGACACTAGGAAGCCGT
	2391	CTGTCAGGTCCTACCCAATGGCTC	GAGCCATTGGGTAGGACCTGACAG
	2392	CACAGCCCATCCCACTGAACTGCT	AGCAGTTCAGTGGGATGGGCTGTG
	2393	ACAAACGATACACGCAACGCTGTG	CACAGCGTTGCGTGTATCGTTTGT
20	2394	TGGCGGCCAGCTAGCAGGCGAAGT	ACTTCGCCTGCTAGCTGGCCGCCA
	2395	ATCTCGAAACGATGCGTGCCTAAA	TTTAGGCACGCATCGTTTCGAGAT
	2396	ATCTCGAGAACAGCGTGCGTGCGG	CCGCACGCACGCTGTTCTCGAGAT
	2397	GAAGAAATCCGCCGACATCTACGG	CCGTAGATGTCGGCGGATTTCTTC
	2398	GCGGAGCAACCTTGGCTGTTTCTA	TAGAAACAGCCAAGGTTGCTCCGC
25	2399	CGCGTTCCGAAGACTTGTTTG	CAAACAACAAGTCTTCGGAACGCG
	2400	TGACCTGAAGCCCATCCATAAGCA	TGCTTATGGATGGGCTTCAGGTCA
	2401	TGGTATTCATTCCGGATAAGCGGG	CCCGCTTATCCGGAATGAATACCA
	2402	GCGTTGCGGGTCATTGATGCAAAC	GTTTGCATCAATGACCCGCAACGC
	2403	ACCGCTTTCTGTGTAGAGCCCTGA	TCAGGGCTCTACACAGAAAGCGGT
30	2404	CAAATAGACAATCGCAGCTTCGGG	CCCGAAGCTGCGATTGTCTATTTG
	2405	TGTCCTGACAAATCAAGGTGCAGG	CCTGCACCTTGATTTGTCAGGACA
	2406	AAATTGCACTCGCGGAGATTTCCT	AGGAAATCTCCGCGAGTGCAATTT
	2407	TGACGCCCATTTCTATATGGTGCA	TGCACCATATAGAAATGGGCGTCA
	2408	TGTTCCGACAGGGCACTGCTAGAC	GTCTAGCAGTGCCCTGTCGGAACA
35	2409	TCGCTGGCTTGGGAAGGCCTTCGT	ACGAAGGCCTTCCCAAGCCAGCGA
	2410	GTGCACCTCCGTTGGCGTAGAATG	CATTCTACGCCAACGGAGGTGCAC
	2411	CTCATTTGGGACCGATCGGGTTGC	GCAACCCGATCGGTCCCAAATGAG
	2412	GCCAGTGTCTGTCAATGGATGGGA	TCCCATCCATTGACAGACACTGGC
	2413	TTGCCCGGCAGGTTCTGTGTAATG	CATTACACAGAACCTGCCGGGCAA
	1		
40	2414	ACCCGCGAACCGAGACGCACTTCT	AGAAGTGCGTCTCGGTTCGCGGGT

	2416	AGGGCGTCTCGGTTGAACCTCGGT	ACCGAGGTTCAACCGAGACGCCCT
	2417	TGACCGTTCAAAGAGCAAGCCAAC	GTTGGCTTGCTCTTTGAACGGTCA
	2418	ACACTCACCTGCTGTCCCTGCTGA	TCAGCAGGGACAGCAGGTGAGTGT
	2419	GCGTTTAACTCCTTGGGTGGTGGT	ACCACCACCAAGGAGTTAAACGC
5	2420	CGCCTGCGCAGGTAACTCTCCGCA	TGCGGAGAGTTACCTGCGCAGGCG
	2421	AATCGAATTTCCCAGCGGCTGTTT	AAACAGCCGCTGGGAAATTCGATT
	2422	AAGCAGGTGGGATCCTGGGGATCA	TGATCCCAGGATCCCACCTGCTT
	2423	AATCCCAGACTCGCTCTTCGTGCT	AGCACGAAGAGCGAGTCTGGGATT
	2424	ACGGTTATAAGGGCCGGCTGCGAC	GTCGCAGCCGGCCCTTATAACCGT
10	2425	TACGAGAGCGGGCTTAGACGTCGC	GCGACGTCTAAGCCCGCTCTCGTA
	2426	GCGATTTTGACCCACGGTTATCGA	TCGATAACCGTGGGTCAAAATCGC
	2427	AGCTGTATAATTTGGATGGCGCGA	TCGCGCCATCCAAATTATACAGCT
	2428	TCCGCGAGTCTTAGCCGATTGAAC	GTTCAATCGGCTAAGACTCGCGGA
	2429	GGCATCAGCTCCGTAAGCCGATAG	CTATCGGCTTACGGAGCTGATGCC
15	2430	TGTTATTGGCAGTTCGAGCGACAG	CTGTCGCTCGAACTGCCAATAACA
	2431	GCGAGCCTTTTTGCTTGGGAAGAG	CTCTTCCCAAGCAAAAAGGCTCGC
	2432	AGAAGAAAGGTCAGCGTCGACGA	TCGTCGACGCTGACCTTTTCTTCT
	2433	CGGGTCGACCCTTGAAGCATAACC	GGTTATGCTTCAAGGGTCGACCCG
	2434	CTCGGTTTTCACAAACTTACCGCG	CGCGGTAAGTTTGTGAAAACCGAG
20	2435	GCAGTCCTATCCGGAGCCTGACAA	TTGTCAGGCTCCGGATAGGACTGC
	2436	AAGGTGCGCTATTTGTTGTCGGTC	GACCGACAACAAATAGCGCACCTT
	2437	AGTGGAATCCATGCCGACACCTGA	TCAGGTGTCGGCATGGATTCCACT
	2438	TACAGGCGTAATTCCTGCGAGGGA	TCCCTCGCAGGAATTACGCCTGTA
	2439	CCGAAGTGCGAGAAGCACGTTGTT	AACAACGTGCTTCTCGCACTTCGG
25	2440	AAGGACTGGTATGGCCGGAGCTTT	AAAGCTCCGGCCATACCAGTCCTT
	2441	GGACACCGCCAACCTCATAGTTGC	GCAACTATGAGGTTGGCGGTGTCC
	2442	AATGGTGTTCGCCTGGACTACCAC	GTGGTAGTCCAGGCGAACACCATT
	2443	TAGGAAAGCGTACACGGGAATCCG	CGGATTCCCGTGTACGCTTTCCTA
	2444	TCTCACCCCAATGATGAGGACGTC	GACGTCCTCATCATTGGGGTGAGA
30	2445	CGTGTCCGTGTGACACTGTCCATG	CATGGACAGTGTCACACGGACACG
	2446	TCCAGGCTGTTGCGGATACGGTAG	CTACCGTATCCGCAACAGCCTGGA
	2447	GTAGGCAAAATGGTCGCGATCAAT	ATTGATCGCGACCATTTTGCCTAC
	2448	ATCTCCGTGGACCCGATTGTGACA	TGTCACAATCGGGTCCACGGAGAT
	2449	GAATATGCCGTCAACGCTATGGGC	GCCCATAGCGTTGACGGCATATTC
35	2450	TTCCGGAAGCGTTTGGTAACTTTG	CAAAGTTACCAAACGCTTCCGGAA
	2451	TTCGATAGGAATACCAGGGCCTGG	CCAGGCCCTGGTATTCCTATCGAA
	2452	GGCCATTTGAGGAGGATTATGCAA	TTGCATAATCCTCCTCAAATGGCC
	2453	ACCTTCTGACCTGGACTTTTGGCG	CGCCAAAAGTCCAGGTCAGAAGGT
	2454	GACCAATCCGCAGTTGAGCAACAG	CTGTTGCTCAACTGCGGATTGGTC
40	2455	TCGGCCACTCACCATGAGTGTAGG	CCTACACTCATGGTGAGTGGCCGA
	2456	AGCGCTCACATGTTCGAAAACGGG	CCCGTTTTCGAACATGTGAGCGCT

Γ	2457	TAACGCAAAGGCGCGATCCTCGCT	AGCGAGGATCGCGCCTTTGCGTTA
	2458	TGGGTGGCCAAATATTACTGCAA	TTGCAGTAATATTTGGCCCACCCA
	2459	GTCCTCGAAAGGGGCATCCAAACA	TGTTTGGATGCCCCTTTCGAGGAC
	2460	CCCATCTGGTGGGAGGCGTTATCA	TGATAACGCCTCCCACCAGATGGG
5	2461	GTGCGCGGTCTGCAAACTCGCCAT	ATGGCGAGTTTGCAGACCGCGCAC
	2462	TGTGTTGCCAACCCTAGGTCATCA	TGATGACCTAGGGTTGGCAACACA
	2463	CTGATGCTGTTCTCGTCGGTTGAC	GTCAACCGACGAGAACAGCATCAG
	2464	AAGCTGCAAAAGGTGAGCGTGGCA	TGCCACGCTCACCTTTTGCAGCTT
	2465	TCTGACGCGTGCTTGGGAGTCTAT	ATAGACTCCCAAGCACGCGTCAGA
10	2466	GAATTACTTGGAGGCGCCGTGCAA	TTGCACGGCGCCTCCAAGTAATTC
	2467	GATTCTTCCCGACCTAGGTTGGCC	GGCCAACCTAGGTCGGGAAGAATC
	2468	CGCAGCGTATCCCATGTTGCTTGA	TCAAGCAACATGGGATACGCTGCG
	2469	GAGATGGAATTGTTCGCCCAAAGA	TCTTTGGGCGAACAATTCCATCTC
	2470	GATGCCTGGATCGGTCTAGCGTCA	TGACGCTAGACCGATCCAGGCATC
15	2471	GCAGCGACTGCTAAGCTATCTCGG	CCGAGATAGCTTAGCAGTCGCTGC
[	2472	AGGGCTAATTTACATCGCCTTGCC	GGCAAGGCGATGTAAATTAGCCCT
	2473	AAGTGCACATCCTCACGAAGCGAT	ATCGCTTCGTGAGGATGTGCACTT
	2474	TCAGGCAGCCGTAATTAAATGCGC	GCGCATTTAATTACGGCTGCCTGA
	2475	CCACTGGGGAAATCGCACTGTTGG	CCAACAGTGCGATTTCCCCAGTGG
20	2476	TTGTCCAAAGCCACCTACGACAGA	TCTGTCGTAGGTGGCTTTGGACAA
	2477	TGGGCGGAATAGATTGGGTGTCTT	AAGACACCCAATCTATTCCGCCCA
	2478	TAGAATTCGCCTCTTCTAGCCGCC	GGCGGCTAGAAGAGGCGAATTCTA
	2479	CATTACTTCCTGCAGATGCGATGC	GCATCGCATCTGCAGGAAGTAATG
	2480	GGAAATGCTAGCTGGGGTAATCGC	GCGATTACCCCAGCTAGCATTTCC
25	2481	GCCGCCACTTGCGAATCTACATCT	AGATGTAGATTCGCAAGTGGCGGC
	2482	ACAATAGCGGACAGCTCGCCAGAT	ATCTGGCGAGCTGTCCGCTATTGT
	2483	AGTTAGGCTCTCGGTGCGGTCCAT	ATGGACCGCACCGAGAGCCTAACT
L	2484	TGGGCCTGAGAAGCGGTTAATAGG.	CCTATTAACCGCTTCTCAGGCCCA
	2485	ACGCTCTGAGCGACGCCTATCGTA	TACGATAGGCGTCGCTCAGAGCGT
30	2486	CCTGGTGATCGTGTCCCAGACTCA	TGAGTCTGGGACACGATCACCAGG
Ĺ	2487	GCGTGTCCATTCGCTTGAGGTTTC	GAAACCTCAAGCGAATGGACACGC
	2488	ATCCTGAACGGCGATGACCACCAC	GTGGTGGTCATCGCCGTTCAGGAT
Ĺ	2489	TTACGTTTCTCACCGATCAACGCC	GGCGTTGATCGGTGAGAAACGTAA
	2490	GCCGTCTTGAGTGGCTAAAAGGCA	TGCCTTTTAGCCACTCAAGACGGC
35	2491	ATCTACGATGCGGCTCGAAGTGTT	AACACTTCGAGCCGCATCGTAGAT
. L	2492	AACCAAGACTCGTCCCCAAACGAA	TTCGTTTGGGGACGAGTCTTGGTT
	2493	AACTGCGGTGGTGGAGGCAGGTGC	GCACCTGCCTCCACCACCGCAGTT
	2494	TGCGATCTTCTCCACCTACAGCGC	GCGCTGTAGGTGGAGAAGATCGCA
	2495	AGGCGCTTAGAACCGTGAAGGCAG	CTGCCTTCACGGTTCTAAGCGCCT
40	2496	TGGAAAATTTTGGGAAACGCTGGA	TCCAGCGTTTCCCAAAATTTTCCA
	2497	CCAGCGCCGCACCTTCTCCAATAG	CTATTGGAGAAGGTGCGGCGCTGG

	2498	TAGACGGCTGGCGAATCTTACGGT	ACCGTAAGATTCGCCAGCCGTCTA
	2499	TACCATACAAGAGAACGAGCCGCA	TGCGGCTCGTTCTCTTGTATGGTA
	2500	GTAGCCGAGAGCAATTTTCACCGC	GCGGTGAAAATTGCTCTCGGCTAC
	2501	GCAAACTCCCCTGCCCTTTAGCCT	AGGCTAAAGGGCAGGGGAGTTTGC
5	2502	ATCCCGCTGATAACCGCCAGGATA	TATCCTGGCGGTTATCAGCGGGAT
	2503	AGTCTCAGTTCGGCGCAACGGTAG	CTACCGTTGCGCCGAACTGAGACT
	2504	AACCTACAGTCGCCGCAATGCATT	AATGCATTGCGGCGACTGTAGGTT
	2505	ATACACGTTTCAGCCGGCAACAAT	ATTGTTGCCGGCTGAAACGTGTAT
	2506	ACGACGGGACGTGCCCTCGTTGAT	ATCAACGAGGGCACGTCCCGTCGT
10	2507	AAGTCCAAACTCGAATGGGGCAGT	ACTGCCCCATTCGAGTTTGGACTT
	2508	GATTTATTGGCGCGGTAACGACCT	AGGTCGTTACCGCGCCAATAAATC
	2509	TGTTTTCAGAGGCTACCCTGCCAT	ATGGCAGGGTAGCCTCTGAAAACA
	2510	ACGGTCTCAGGGAAATGCGATCTC	GAGATCGCATTTCCCTGAGACCGT
	2511	GACTTGAAACCGCCTATGCCCACA	TGTGGGCATAGGCGGTTTCAAGTC
15	2512	CGATCGGTTGTGTGCTGTCTTACC	GGTAAGACAGCACAACCGATCG
	2513	AGTAGCACAATGCCTCATTTCCGC	GCGGAAATGAGGCATTGTGCTACT
	2514	CTCGCTATCTACGCGTCTCCGAAA	TTTCGGAGACGCGTAGATAGCGAG
	2515	AGCCCGTTACGGCATCTAGGATTC	GAATCCTAGATGCCGTAACGGGCT
	-2516	TCGCGATGGCGAGAGTTCAGAATA	TATTCTGAACTCTCGCCATCGCGA
20	2517	TTACAGGATTCCAAAACCCGCAAA	TTTGCGGGTTTTGGAATCCTGTAA
	2518	CGGTACCAACGCGCGGGCATATGA	TCATATGCCCGCGCGTTGGTACCG
•	2519	TGCCAGTATTATCCGTGCCAGCCG	CGGCTGGCACGGATAATACTGGCA
	2520	ATTTCAGACCTCGGGACAACCTGG	CCAGGTTGTCCCGAGGTCTGAAAT
	2521	GAAGTGCGCGTAACTTAGGGAGCC	GGCTCCCTAAGTTACGCGCACTTC
25	2522	TTGGCCAGGTCATCACTCTGCCAT	ATGGCAGAGTGATGACCTGGCCAA
	2523	ATCGGCCGGTATTAGCTGCCCTCC	GGAGGCAGCTAATACCGGCCGAT
	2524	CGCAGGTAAGGCCGAGCAATGTTT	AAACATTGCTCGGCCTTACCTGCG
	2525	TTGGGAACGTGCTAGGCGGCCCTC	GAGGGCCGCCTAGCACGTTCCCAA
	2526	CATCTCGGCACACTGGTGCTGTAT	ATACAGCACCAGTGTGCCGAGATG
30	2527	ACGCGTAAATCAACGACGTGGTCG	CGACCACGTCGTTGATTTACGCGT
	2528	CGTAGGTGGTAAATGTTGGCCCAG	CTGGGCCAACATTTACCACCTACG
	2529	TTCGAGCCAGAATAAAACGGTTGG	CCAACCGTTTTATTCTGGCTCGAA
	2530	AGAGATATTCGGCCTCGGTCGAGA	TCTCGACCGAGGCCGAATATCTCT
	2531	CGACAAAGTTTCTCGCGAGCAACT	AGTTGCTCGCGAGAAACTTTGTCG
35	2532	ATTGCCGCGTCTCGTATCAAAAGA	TCTTTTGATACGAGACGCGGCAAT
	2533	CGGAGAATGGATGCAGGTTCTTCG	CGAAGAACCTGCATCCATTCTCCG
	2534	TATAATCATTTGCGACTCGCCCCA	TGGGCGAGTCGCAAATGATTATA
	2535	AATTTCCCCGATTTGAAGAAGCG	CGCTTCTTCAAATCGGGGAAAATT
	2536	TCGCATACTTCGTCGGCGAGTATT	AATACTCGCCGACGAAGTATGCGA
40	2537	CGTGAGCCGTTCTCATCCAAGCGG	CCGCTTGGATGAGAACGGCTCACG
	2538	GCAGAATCGAATTGGGGTGGGTTT	AAACCCACCCCAATTCGATTCTGC

	2539	CTCTCGGTTTCTCAACCGAGCTCG	CGAGCTCGGTTGAGAAACCGAGAG
	2540	GACCAGTTAGTGCAATGGTTGGCG	CGCCAACCATTGCACTAACTGGTC
	2541	TTCTCGCACAGCTAGTCAGCCGAT	ATCGGCTGACTAGCTGTGCGAGAA
	2542	CCAAGTCTTGCGTGAGCGATCCTG	CAGGATCGCTCACGCAAGACTTGG
5	2543	GCGAAAGTGGCTCGTATTTCTCCA	TGGAGAAATACGAGCCACTTTCGC
	2544	CCTCGGGACTGTCCGACTGAAAAA	TTTTCAGTCGGACAGTCCCGAGG
	2545	AGGCGAGTGTACGGCTCATCCATG	CATGGATGAGCCGTACACTCGCCT
	2546	GCGGCTCTGCCTACGATATTCACA	TGTGAATATCGTAGGCAGAGCCGC
	2547	TGCACCTGTCTGTAGATTTGCGGT	ACCGCAAATCTACAGACAGGTGCA
10	2548	CATAAAGCACGGACGCGACTTGAT	ATCAAGTCGCGTCCGTGCTTTATG
	2549	CCCTCAACGTAGGGCGTGACTTTC	GAAAGTCACGCCCTACGTTGAGGG
	2550	GGGTCATCGTGCAGTTATGCCGTA	TACGGCATAACTGCACGATGACCC
	2551	CCCGGATAATCCTTTGTCCAGCCG	CGGCTGGACAAAGGATTATCCGGG
	2552	TCCGATAAGCGAACTCACATGGGT	ACCCATGTGAGTTCGCTTATCGGA
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	2554	GAGGCACCAATCGGTCTGAAAATG	CATTTTCAGACCGATTGGTGCCTC
	2555	TACGAAAATGGTTGCGCCGGGTCT	AGACCCGGCGCAACCATTTTCGTA
	2556	AATTGCCGGAAGCAGTCAGAATCG	CGATTCTGACTGCTTCCGGCAATT
	2557	CCGAATCAGCCGTATTTGCTGGAA	TTCCAGCAAATACGGCTGATTCGG
20	2558	CCCGCTTATCTGTACTCGATCGCA	TGCGATCGAGTACAGATAAGCGGG
	2559	TTTTGGGGATCCCTATTAGGCGCA	TGCGCCTAATAGGGATCCCCAAAA
	2560	AGTGACAGCGCTCACCACGGTCCC	GGGACCGTGGTGAGCGCTGTCACT
	2561	CCATGAGTGTTTCGGGACATCGTA	TACGATGTCCCGAAACACTCATGG
	2562	GCCACATTCTGCTACCTCCGTGTT	AACACGGAGGTAGCAGAATGTGGC
25	2563	TCCTGTGCTTTGTGACGTGCTAGG	CCTAGCACGTCACAAAGCACAGGA
	2564	GACCGCATATACACCTGATGGGCC	GGCCCATCAGGTGTATATGCGGTC
	2565	GTAGGCCCGTCGTTAACCATCTCA	TGAGATGGTTAACGACGGGCCTAC
	2566	CGGCTCGCGAAATGGAGTTTAGCG	CGCTAAACTCCATTTCGCGAGCCG
	2567	GCTGATCGGCTTTTCACCGCTATA	TATAGCGGTGAAAAGCCGATCAGC
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	2569	TTGGCGAGGATCCCTAGGCGTACT	AGTACGCCTAGGGATCCTCGCCAA
	2570	AAGTCCTGAGGCCGTTCGGTTTCT	AGAAACCGAACGGCCTCAGGACTT
	2571	ACTCCGGACATCTCGGCCAGAGAT	ATCTCTGGCCGAGATGTCCGGAGT
	2572	CCAAGGGAACACAGGATCGTAGA	TCTACGATCCTGTGTTCCCCTTGG
35	2573	GTGGCCTAAATCCGCCTTCTCAAC	GTTGAGAAGGCGGATTTAGGCCAC
	2574	CACTCCGTCTCGTCCATTAATGCG	CGCATTAATGGACGAGACGGAGTG
	2575	TCAAGAACCCAGTGCCGGTCAGCA	TGCTGACCGGCACTGGGTTCTTGA
	2576	GAATCAATTTTCCAGGGACGGGAC	GTCCCGTCCCTGGAAAATTGATTC
	2577	ATCGGTGTGCTGGAGCGCCAGAGT	ACTCTGGCGCTCCAGCACACCGAT
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	2579	TGGGCGCGCTTTTAAGACTACATC	GATGTAGTCTTAAAAGCGCGCCCA

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	2580	CGTTGGGTACCGTTCTATCAACCG	GAAGCATTGAACCCAGCTCACTGC
	2581	GCAGTGAGCAGCAGCTCTCT	ACACACCTGCCTGTGTGGATGATG
	2582	CATCATCCACACAGGCAGGTGTGT	
	2583	AGACAAAGGTCCCCATTGCGAAAT	ATTTCGCAATGGGGACCTTTGTCT
5	2584	ATACTCGTCGACGAGAAGCGGAAA	TTTCCGCTTCTCGTCGACGAGTAT
	2585	GCAGAATGTGTTGTCTTCGCAGCC	GGCTGCGAAGACAACACATTCTGC
	2586	CACCATGCCTTCATCTTGGCCTAG	CTAGGCCAAGATGAAGGCATGGTG
	2587	ACTCTTCAACGCCAGGTTAAGCCA	TGGCTTAACCTGGCGTTGAAGAGT
	2588	GCGACCTGCGGCGTGTGTATTCTC	GAGAATACACACGCCGCAGGTCGC
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	2590	ACCGTCGAATCTTGCGGCCAATGT	ACATTGGCCGCAAGATTCGACGGT
	2591	TAATGCATGCTCCCGGCTCACGTT	AACGTGAGCCGGGAGCATGCATTA
	2592	TCTGTACACACCACGTCGTGCACA	TGTGCACGACGTGGTGTACAGA
	2593	CATGGGGTTGTCAGACGACACCTA	TAGGTGTCGTCTGACAACCCCATG
15	2594	AATCTGATGCTCGCTGTAGGACGG	CCGTCCTACAGCGAGCATCAGATT
	2595	TCGAAACCGCGGGAAAGGGTAAAA	TTTTACCCTTTCCCGCGGTTTCGA
	2596	TGGGGACGGCGTCTAATCCTCC	GGAGGATTAGACGCCCGTCCCCA
	2597	AGGCATGCACCCATGCTGCCAGAG	CTCTGGCAGCATGGGTGCATGCCT
	2598	TCCCAATGGCCTGTCAAGCATAAA	TTTATGCTTGACAGGCCATTGGGA
20	2599	GAACCTGAGCCTTTGCTAGCACGA	TCGTGCTAGCAAAGGCTCAGGTTC
	2600	CGAATTGATAGCGTTACGGGCGAA	TTCGCCCGTAACGCTATCAATTCG
	2601	TTGCACGCGCGCGAACGACTATTC	GAATAGTCGTTCGCGCGCGTGCAA
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	2603	TGAGGACCATCCAATGGATCGGTT	AACCGATCCATTGGATGGTCCTCA
25	2604	TCGGTGATTGGTAATTTGGATCCG	CGGATCCAAATTACCAATCACCGA
	2605	GCGGCAGGTAGTTTGACTGGATG	CATCCAGTCAAACTACCTGCCCGC
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	2607	CGGTACAGCGATAGCCAAGGATA	TATCCTTGGCTATCCGCTGTACCG
	2608	CCATGCTCTTCGCTGCAGCATACT	AGTATGCTGCAGCGAAGAGCATGG
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	2610	GAAGACCCGTCCGGGTTTCCATAC	GTATGGAAACCCGGACGGGTCTTC
	2611	CTGGCAAGGAGGATGTGGCTCGTG	CACGAGCCACATCCTCCTTGCCAG
	2612	CTGTGCAGGGGGTGGCTCTGTTGA	TCAACAGAGCCACCCCCTGCACAG
	2613	TTCAATAATGATCACGAGGCCCCA	TGGGGCCTCGTGATCATTATTGAA
35	2614	TGGTGATGCGAAGCCTTACCTTTG	CAAAGGTAAGGCTTCGCATCACCA
	2615	CTGCCACCATCTACGGCGCAGTCT	AGACTGCGCCGTAGATGGTGGCAG
	2616	TTTGCCCAGCTCTCGCAGAAGTTA	TAACTTCTGCGAGAGCTGGGCAAA
	2617	AATTCAGACGCCACATCGACGGTC	GACCGTCGATGTGGCGTCTGAATT
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40	2619	GGCGAGGAATTTCGGAACCTTATG	CATAAGGTTCCGAAATTCCTCGCC
-	2620	ATCCGATGATCAGATACCGGCTGG	CCAGCCGGTATCTGATCATCGGAT
		1,	

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	2621	CCATAGACTAGCGCCAGAGTGCCC	GGGCACTCTGGCGCTAGTCTATGG
	2622	TGTGGACCTAGAAAATTGCCAGCC	GGCTGGCAATTTTCTAGGTCCACA
	2623	GAATAATCATCGCGGTCCTCATGG	CCATGAGGACCGCGATGATTATTC
	2624	GGGATTGGCTCTTGGTTGGAAGAA	TTCTTCCAACCAAGAGCCAATCCC
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	2627	TCAGGACCGACGGTGCACTTAGTG	CACTAAGTGCACCGTCGGTCCTGA
	2628	CCAGCCGTCACAGTGCAATTTCCG	CGGAAATTGCACTGTGACGGCTGG
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	2631	CCGAGTGCGCGAAGTGTCTATGTG	CACATAGACACTTCGCGCACTCGG
	2632	GCACCAGTGCCCGATCAAAACGTA	TACGTTTTGATCGGGCACTGGTGC
•	2633	TGCAGGCTTCTCAACGGCTGGGAG	CTCCCAGCCGTTGAGAAGCCTGCA
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	2636	CGAACCGGCAGTCGATCGTTGCAT	ATGCAACGATCGACTGCCGGTTCG
	2637	CCGTTAGTGGTCGACAGTTCGGTT	AACCGAACTGTCGACCACTAACGG
	2638	TCAGGCTACGCCCTCAGCACTACA	TGTAGTGCTGAGGGGGTAGCCTGA
	2639	TATACGGGCCGAGGTCCGTATTCG	CGAATACGGACCTCGGCCCGTATA
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	2641	CTGCTCAGCGGTGCTTGAAAGACA	TGTCTTTCAAGCACCGCTGAGCAG
	2642	GGAGATTGACTTCGCGTTTCACCA	TGGTGAAACGCGAAGTCAATCTCC
	2643	ATGGTTCAGAAGGTTCGTCGGGTT	AACCCGACGAACCTTCTGAACCAT
	2644	GAGTGGAGCATTCTCGGCCCTCAA	TTGAGGGCCGAGAATGCTCCACTC
25	2645	TGGATTGGAACCAATCCCGCACAA	TTGTGCGGGATTGGTTCCAATCCA
	2646	TGCTCTTGTGGTCACTCGAGAGGA	TCCTCTCGAGTGACCACAAGAGCA
	2647	TTGGGAGCACGGTTACCGCCTGTG	CACAGGCGGTAACCGTGCTCCCAA
	2648	CAACGCGAGCTAACGGTAGTTTCG	CGAAACTACCGTTAGCTCGCGTTG
	2649	AACGCTGAGCGCTCACCTTCACCT	AGGTGAAGGTGAGCGCTCAGCGTT
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	2651	GGATGGCATGGGCACACTGTAACC	GGTTACAGTGTGCCCATGCCATCC
	2652	TCGCTCGTAGATATCCTTCACGCC	GGCGTGAAGGATATCTACGAGCGA
	2653	GGAGCAATACCGCGTCCAAAACAC	GTGTTTTGGACGCGGTATTGCTCC
	2654	TTGTTCAGACTTAGGCGCTGCCCA	TGGGCAGCGCCTAAGTCTGAACAA
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	2657	AGGTGAGCGCAGGCATATTGCAGT	ACTGCAATATGCCTGCGCTCACCT
	2658	CTCGGGCCTGTACAGCAAAGCCGT	ACGGCTTTGCTGTACAGGCCCGAG
	2659	TGCGCGCTAGTGCTGCCTATGATC	GATCATAGGCAGCACTAGCGCGCA
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	2662	GAGGCGGTCGAGGCTCACAATATT	AATATTGTGAGCCTCGACCGCCTC
	2663	CGAGGTTAGACGCCTATGACCCAC	GTGGGTCATAGGCGTCTAACCTCG
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	2667	TTCACAGCTATCCTAGGCGCTGCC	GGCAGCGCCTAGGATAGCTGTGAA
	2668	AGAAGCGCGAAGTGTACCCCGCAT	ATGCGGGTACACTTCGCGCTTCT
	2669	TGCATGGTATTTGCGTGCGATAGG	CCTATCGCACGCAAATACCATGCA
	2670	GGCCGGACCTATGTGAGATGGAAA	TTTCCATCTCACATAGGTCCGGCC
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	2672	TGCTTACCGTTCAGGGAGGCGTGT	ACACGCCTCCCTGAACGGTAAGCA
	2673	GGAGAGTTACGCGATGAGCCACCT	AGGTGGCTCATCGCGTAACTCTCC
	2674	CGGTATGCGGTGTACAGCTTTCGT	ACGAAAGCTGTACACCGCATACCG
	2675	GTAAGCCGGGTCTCGTGTCGCCGT	ACGGCGACACGAGACCCGGCTTAC
15	2676	GCGTAGTGCGAACGCCCCGACCTA	TAGGTCGGGGCGTTCGCACTACGC
	2677	TCCTCGCGGCTTACGTCAAATTCG	CGAATTTGACGTAAGCCGCGAGGA
	2678	CGACGTTCAAAGCGGGAGAGGAGG	CCTCCTCCCGCTTTGAACGTCG
	2679	CGAGGCACCCCGACATGTTGAGAT	ATCTCAACATGTCGGGGTGCCTCG
	2680	CTATTTCGTGCCGCGTCGGACAAG	CTTGTCCGACGCGCACGAAATAG
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	2682	ATCACTCGTGCGTACCCGACCGTC	GACGGTCGGGTACGCACGAGTGAT
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	2684	TCACACCGAGCCCCATAAATGAAA	TTTCATTTATGGGGCTCGGTGTGA
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25	2686	TCAGGGCGAGTTTTTTCAGCGGCG	CGCCGCTGAAAAAACTCGCCCTGA
	2687	TTCGTTCTGTCTATTTTTGCCCCG	CGGGGCAAAAATAGACAGAACGAA
	2688	TGGTATGCCCAGGATCCAGCCTAC	GTAGGCTGGATCCTGGGCATACCA
	2689	TCTCAGTCGTTAGGCCAATGGCGG	CCGCCATTGGCCTAACGACTGAGA
	2690	AAAGATCACCGTGGAGCGATCGGC	GCCGATCGCTCCACGGTGATCTTT
30	2691	TAGCAGGACTTGCACTCGTGATGC	GCATCACGAGTGCAAGTCCTGCTA
	2692	TGCCCACGGTACCGTTCAAGGCTG	CAGCCTTGAACGGTACCGTGGGCA
	2693	TGAGGTGCGTCGCCCTAAGTAATG	CATTACTTAGGGCGACGCACCTCA
	2694	AGCAAGGGTTACAACCCGCAACCC	GGGTTGCGGGTTGTAACCCTTGCT
	2695	CACAACAGCCAGTATTCGCCACAA	TTGTGGCGAATACTGGCTGTTGTG
35	2696	GGCAACACCATACTCGACGAGCTC	GAGCTCGTCGAGTATGGTGTTGCC
	2697	GGCTGGATTGACAATTTAGCCCCT	AGGGGCTAAATTGTCAATCCAGCC
	2698	CGTGAGAAATGCTACACGCGTCAG	CTGACGCGTGTAGCATTTCTCACG
	2699	CGCATCTGCCCCATTTTGTTCCTT	AAGGAACAAAATGGGGCAGATGCG
	2700	GTCGGCCTAGTCGGCAGAACGGTG	CACCGTTCTGCCGACTAGGCCGAC
40	2701	TCCCTCACCTTCCAAAAATGTGCT	AGCACATTTTTGGAAGGTGAGGGA
	2702	GGGCAAGAACATGAGAACAGACCG	CGGTCTGTTCTCATGTTCTTGCCC

5 2707 GTGTAGACCTTGGGTAGCCCCGTT AACGGGGCTACCCAAGCTCTACAC 2708 CGCAGCATCCGAGTTAACACACAT ATGTGTGTAACTCGAGTGCTGCG 2709 ATGAGCCTGGGATGATCCGCTGGT ACCAGCGGATCATCCCAGGCTCAT 2710 CCTGGCATAAGTGCCGACATGCTT AACACAGCTGCTGGCGATCATCCCAGGCTCAT 2711 CGCGCATGAAATACCAACGCACCG CGTCCGTCGTTATGCCCAG 2711 ACCATGGATCCAACACCACCGCACCG CGTCCGTCGTTATTTCCTGCGC 2712 AAAGATGGGTCGATGGGAGCGTCT AACACTGCCCATCGACCCATCTTT 2713 ATCCTGGGCACGAGCGGATTTATC GATAAATCCGCTCGTGCCCAGGAT 2714 TCACCGCATTTGATAGTTAGCGCA TCGCGTAACTATCAAATGCGGTGA 2715 TGGTGGAGCCGGACTCTGGTGTTAT 2716 CACAATGAAAAAACAATGCCCCCA TCGCGCCAACGAGTCCGCCCCACCAC 2717 CCTTGCCGCGCTTGTGGTACCAAC GTTGGTACTATCAAATGCGGTGA 2718 CCGAGACCTTTGCCACACGAAAGA TCTTTCGTTGGGCCAAAGGCCGCCAACGC 2719 ACCGCGGTTGTCCACCACGAAGA TCTTTCGTTGGGCCAAAGGCCGCGCAAGG 2719 ACCGCGGTTTACCCACCACGAAGA TCTTTCGTTGTGGTACACCCGCGGC 2720 GTCGTACCCTTACCCACCGAAGA TCTTCCGCTCCACCGCGC 2720 GTCGTACCCTTACCCCACCGAAGA TCTCCCCTCAGGTGTAACCCTACACCCGCGC 2721 TCGTAACTTTACCCCACCGCGGAA 2722 CCTAGACGGATACCCTGAGCAGAC 2722 CCTAGACGGATACCCTGAGCGGAA 2723 AAGCGACAGCACACGCACA CTGCGTGTCGCGTAACCTTACACCCCGCT 2724 GCGTGGACACACACGCACA CTGCGTGTCGCGTAACCTTCAGCCT 2725 GTCGGAGACCATCACCTGAGCGGAA TCCCCTGGGTTACCGTACCG				
2705   CCTCGCGTGAGTAAAAACCGTCCG   CGGACGGTTTTTACTCACGCGAGG     2706   ACTTCCGCCACAGAATGCGGCCAG   CTGGCCGCATTCTGTGGCGGAAGT     2707   GTGTAGAGCTTGGGTGCCCCGTT   AACGGGGCTACCCAAGCTCTCACA     2708   CGCAGCATCCGAGTTAACACACAT   ATGTGTGTTAACTCGGATGCTGCG     2709   ATGAGCCTGGGATGATCCGCTGGT   AACGGGGATCATCCAAGCTCTACAC     2700   ATGAGCCTGGGATGATCCGCTGGT   AACGGGGATCATCCAAGCTCTACAC     2710   CCTGGCATAAGTGCCGACATGCTT   AAGCATGTCGGCGACTTATGCCAGG     2711   GCGCATGAAAAACTACGACGGACG   CGTCCGTCGTGTGTTTTTCATGCGC     2712   AAAGATGGGTCGATGGGAGCGTCT   AAGCATCCGCTCGTCCCACGGAT     2713   ATCCTGGGCACGAGCGGATTTATC   GATAAATCCGCTCGTCGCCAAGGAT     2714   TCACCGCATTTGATAGTTACGCGA   TCGCGTAACTATCAAATGCGGTGA     2715   TGGTGGAGCGGACTCTGGTGTTAT   ATAACACCAGAGTCCGCCACCA     2716   CACAATGAAAAAACATGGCCCCA   TGGGGCAATTGTTTTTTCATGTGTG     2717   CCTTGCCGCGCTTGTGGTACCAAC   GTTGGTACCAACAGCCGGCAAGG     2718   CCGAGACCTTGGGAAAGA   TTTTTCGTTGTGCCAAGGCCGGCAAGG     2719   ACCGCGGTTTGCCACACGAAAGA   TCTTTTCGTGTGCCAAGGCCGGCAAGG     2720   GTCGTACGCTTACCGCAGCGGAGA   TCTCCGCTGCGGTAACCTCCGG     2721   TCGTAATTTGACCGCACCACGGAGA   TCTCCGCTGCGGTAACCGTCCGG     2722   CCTAAACTGCACCCGACACGCAGA   TCTCCGCTGCGGTAACCTTCAGG     2723   AACGGACGCAGAGGTTCAGTCG   GCGACTGAACCTCTGCGTTCAGG     2724   GCGTGGACACCCTGAGCGGAA   TCTCCGCTGCGGTAACCTCTGCGTTAGG     2725   GTCGGACAGCACAGCGCGGAA   TCTCCGCTGCGGTAACCTCTGCGTTAGG     2726   TATCCGCAGGTATACCCTGAGCGGA   TCTCCGCTGCGGTAACCTCTGCGTTAGG     2727   CATCAGTCGGGCTTCAGCCT   AGGCCCAGGTGATACCGTCTAGG     2728   CGGTGGACGCACTTGAGCGTT   AAGCCGTAACCCTTGGCTTCCGCA     2729   TCGTCGCAGGGTATACCATGCGC   AGGCCAAGGTAACCCCTGGCTGATG     2721   TCGTCGCAGGGTAACCACTGAGCGTT   AAGCCGTAACCCCTGGCGGAA     2722   TCGTCGCGGGCAACCACACACACACACACACACACACACA		2703	TCGTCCTGGTACGACTTGCGTAGA	TCTACGCAAGTCGTACCAGGACGA
2706   ACTTCCGCCACAGAATGCGGCCAG   CTGGCCGCATTCTTGTGGCGGAAGT		2704	TGGCGGTTGCATGTGATGATCAAG	CTTGATCATCACATGCAACCGCCA
5 2707 GTGTAGAGCTTGGGTAGCCCGGTT 2708 CGCAGCATCCGAGTTAACACACAT ATGTGTGTAACTCGAGTCTCACC 2709 ATGAGCCTTGGGATGATCCGCTGGT 2710 CCTGGCATAAGTGCCGACTGGT 2711 CCTGGCATAAGTGCCGACATCCTT 2711 CGCACTGAAGTGCCGACATCCTT 2712 AAAGATGGGTCGATGGAGACGC CGTCCGTCGTTATTCCCAGG 2711 AGCACTGCAGACACCC CGTCCGTCGTATTTTTCATGGCC 2712 AAAGATGGGTCGATGGGAGCGCTC AGACCGTCCATCTTTTCATGCGC 2713 ATCCTGGGCACGAGCGGATTTATC GATAAATCCGCTCGTGCCCAGGAT 2714 TCACCGCATTTGATAGTTAACGCCA TCGCGTACTTTTTCATTGCTGCACACACACACACACACAC		2705	CCTCGCGTGAGTAAAAACCGTCCG	CGGACGGTTTTTACTCACGCGAGG
2708 CGCAGCATCCGAGTTAACACACAT ATGTGTGTTAACTCGGATGCTGCG 2709 ATGAGCCTGGGATGATCCGCTGGT ACCAGCGGATCATCCCAGGCTCAT 2710 CCTGGCATAAGTGCCGACATGCTT AAGCATGTCGGACTTATGCCAGG 2711 GCGCATGAAAAACTACGACGACG CGTCCGTCGTTATGTCCAGG 2711 ATCCTGGGCACAGTGGGAGC CGTCCGTCGTCAGTTTTTCATGCCAG 2712 AAAGATGGGTCGATGGAGCGCGCTCT AGCCCATCGACCCATCGTC 2713 ATCCTGGGCACGAGCGGAATTTATC GATAAATCCGCTCGTGCCCAGGAT 2714 TCACCGCATTTGATAGTTACGCGA TCGCGTAACTATCAAATGCGGTGA 2715 TGGTGGACCGGACTCTGGTGTTAT ATAACACCAGAGTCCGCTCCACCA 2716 CACAATGAAAAAACAATGGCCCCA TGGGGCCATTGTTTTTTCATTGTG 2717 CCTTGCCGCGCTTTGTGGTACCACC 2718 CCGAGACCTTTGCCACACGAAAGA TCTTTCGTGTGGCAAAGCGCGCGCACACACACACACACCACACACA		2706	ACTTCCGCCACAGAATGCGGCCAG	CTGGCCGCATTCTGTGGCGGAAGT
2709 ATGAGCCTGGGATGATCCGCTGGT ACCAGGGATCATCCCAGGCTCAT 2710 CCTGGCATAAGTGCCGACATGCTT AAGCATGTCGGCACTTATGCCAGG 2711 GCGCATGAAAAACTACGACGGACG CGTCCGTCGTAGTTTTTCATGCGC 2712 AAAGATGGGTCGATGGGAGCGTCT AAGCGCTCCCATCGACCCATCTTT 2713 ATCCTGGGCACGAGCGGATTTATC GATAAATCCGCTCGTGCCCAGGAT 2714 TCACCGCATTTGATAGTTACGCAGA 2715 TGGTGGAGCGGACTTTATC GATAAATCCGCTCGTGCCCAGGAT 2716 CACAATGAAAAAACAATGGCCCA TGGGGCAATGTTTTTCATTGTG 2717 CCTTGCCGCGCTTGTGTTAT ATAACACCAGAGTCCGCTCCACCA 2716 CACAATGAAAAAACAATGGCCCA TGGGGCCATTGTTTTTCATTGTG 2718 CCGAGACCTTTGCCACACGAAAGA TCTTCGTGTGGCAAAGGGCGGCAAGG 2719 ACCGCGGTTGTACCACAC GACAAGA TCTTCGTGTGGCAAAGGTCCGCCAGGAT 2710 GTGTAATTTGACCGCAGCGAAGA TCTTCGTGTGGCAAAGGTCCGCCGGT 2720 GTCGTACGCTTACCGCAGCGAAGA TCTCCGCTGAGGTGACACGCAGGAAGA 2721 TCGTAATTTGACCGACACGCAGAA TCCCGCTGCTCAGGTGTACACCGCGGT 2722 CCTAGACGGATACCCTGAGCAGAA TCCCGCTGGTGAAATTACGA 2723 AAGCGACAGCAGAAGA TCCCGCAGGTGATACCGCTCAGG 2724 ACCGCAGGGATACCCTGAGCAGAA TCCCGCTCAGGTTACCGCTAGG 2725 GTCGGAGAGCCAAGTGCGC GCCACTGAACCTCTGCTGTCGCTT 2726 TATCCGCACGGTATACCATGAGCGCA AGCCCAAGGTGATATCGTCACGC 2726 TATCCGCACGGTATAGCAGTTGAC AGCCCAAGGTGATATCGTCACGCT 2727 CATCAGTCGGGCTACCTTCAGCCT ACGCCAAGTGATATCGTCACGAC 2728 CGGATTAATGCCTTTCCTGGAAT ATCCCAAGGTAGATACCCGAGGAA 2730 GGCCGAAGACCACCAGTAACAGGTT AACCTGTAACCAGTGGCCAACCACTGGCTTCCGGAC 2731 CGCCGGAAGCCATGAACAGGTT AACCTGTAACCAGTGGCTCCGGCC 2732 TCGGCTTACCGCTTTCCTGGAAT AACCTGTTACCTGTGGTCCAGCCACGAGAAGCATTAACCGAACCAACACACAAGAAGCATTAACCGAACACACAC	5	2707	GTGTAGAGCTTGGGTAGCCCCGTT	AACGGGGCTACCCAAGCTCTACAC
2710   CCTGGCATAAGTGCCGACATGCTT		2708	CGCAGCATCCGAGTTAACACACAT	ATGTGTGTTAACTCGGATGCTGCG
2711   GCGCATGAAAAACTACGACGGACG   CGTCCGTCGTAGTTTTTCATGCGC		2709	ATGAGCCTGGGATGATCCGCTGGT	ACCAGCGGATCATCCCAGGCTCAT
10 2712 AAAGATGGGTCGATGGAAGCGTCT AGACGCTCCCATCGACCCATCTTT 2713 ATCCTGGGCACGAGCGGATTTATC GATAAATCCGCTCGTGCCCAGGAT 2714 TCACCGCATTTGATAGTTACGCGA TCGCGTAACTATCAAATGCGGTGA 2715 TGGTGGAGCGGACTCTGGTGTTAT ATAACACCAGAGTCCGCTCCACCA 2716 CACAATGAAAAAACAATGCCCCA TGGGGCAATGTTTTTTTATTATTGTG 2717 CCTTGCCCGCGCTTGTGGTACCAAC TGGGGCAATGCAAAGGCGCGAAGGG 2718 CCGAGACCTTTGCCACACGAAAGA TCTTTCGTGTGCACAAGGCCGCGCAAGG 2719 ACCGCGGTGTACAACCTGAGCAGG GCTGCTCAGGTGTAACCACCGCGT 2720 GTCGTACGCTTACCGCAGCGAGA TCTTCCGCTCGGGTAACCACGCGGT 2721 TCGTAATTTGCACCACGAACGA TCTTCGTGTGGCAAAGGTCTCGG 2722 CCTAGACGGATACCCTGAGCGGAA TTCCGCTCAGGTGTACACCGCGGT 2723 AAGCGACAGCAGACACACGCG CGCATGATCCGTCTCAGG 2724 GCGTGACAGCAGAACACCCGGA TTCCGCTCAGGGTAACCTTCGTCTCGAC 2725 GTCGGACAGCAGAAGA TTCCGCTCAGGGTAACCTCTGCTTCAGG 2726 TATCCGCACGGATATCACCTGGGCGT ACGCCCAGGTGATATCGTCCAGC 2727 CATCAGTCGGGCGT ACGCCCAGGTGATATCGTCCAGC 2728 TATCCGCACGGTATAGCAGTTGCA TGCAACCTCTGCTGCGGTAACCTTGCGTCAGC 2728 CGGATTAATGCAGTTCACCCT AGGCTGAACCTCTGCTCGGAC 2729 TTCGTCGTGCCAACCTTTCAGCCT AGGCTGAACCACTGGCTCTCCGAC 2729 TTCGTCGTGCCAACCACACACACACACACACACACACACA		2710	CCTGGCATAAGTGCCGACATGCTT	AAGCATGTCGGCACTTATGCCAGG
2713 ATCCTGGGCACGAGCGGATTTATC 2714 TCACCGCATTTGATAGTTACGCGA 2715 TGGTGGAGCGGACTCTGGTGTTAT 2716 CACAATGAAAAAACAATGGCCCCA TGGGGCCATGTTTTTTCATTGTG 2717 CCTTGCCGCGCTTTGGTACCAAC 2718 CACAATGAAAAAACAATGGCCCCA TGGGGCCATTGTTTTTTCATTGTG 2717 CCTTGCCGCGCTTTGCCACCAAGCACCAAAGCGCGCGCAAAGCA 2718 CCGAGACCTTTGCCACACAGAACA 2718 CCGAGACCTTTGCCACACAGAACA 2719 ACCGCGGTGTACCAAC 2719 ACCGCGGTGTACCACCGAAGAA 2720 GTCGTACGCTTACCGCAGCAGACA 2721 TCGTAATTTGACCGCAGCGGAGA TCTTCGGTGGCAAAGCGTCCGG 2722 CCTAGACGGATACCCTGAGCGGAA TCTCCGCTGCGGTAAGCGTACGAC 2721 TCGTAATTTGACCGACACGCAG CTGCGTGTAGCGTACAATTACGA 2722 CCTAGACGGATACCCTGAGCGGAA TTCCGCTCAGGGTAACCGTCTAGG 2723 AAGCGACAGACACACGCAG CTGCGTGTACCGTCTAGG 2724 GCGTGGACGATACACCTGAGCGAA TTCCGCTCAGGGTATCCGTCCGTT 2724 GCGTGGACGAGAGCTTCAGTCGC GCGACTGAACCTCTGCTGTCCCTT 2724 GCGTGGACGAGATACACTGGGCTT AAGCCGTAACCTCTGCTGTCCCTT 2724 GCGTGGACGAGATACACTTGAGCGT AAGCCGTAACCTCTGCTGTCCCTT 2724 GCGTGGACGAGATCACCTTCAGCCT AGGCCTAACCTCTGCTGTCCCTT 2725 TATCCGCACGGTATAGCAGTTGAT 2726 TATCCGCACGGTATAGCAGTTGAC TGCAACTGCTATACCGTGCGGATA 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGAACGCTATACCGTGCGAACACACCACTAATCCATCC		2711	GCGCATGAAAAACTACGACGGACG	CGTCCGTCGTAGTTTTTCATGCGC
2714 TCACCGCATTTGATAGTTACGCGA TCGCGTAACTATCAAATGCGGTGA 2715 TGGTGGAGCGGACTCTGGTGTTAT ATAACACCAGAGTCCGCTCCACCA 2716 CACAATGAAAAACAATGGCCCCA TGGGGCCATTGTTTTTCATTGTG 2717 CCTTGCCGCGCTTTGTGTACCAAC GTTGGTACCACAAGCGCGGCAAGG 2718 CCGAGACCTTTGCCACACGAAAGA TCTTTCGTGTGGCACAAGGCCGGCAAGG 2719 ACCGCGGTGTACACCTGAGCAGGC GCCTGCTCAGGTTACACCGCGGC 2720 GTCGTACGCTTACCGCAGGAGA TCTTCCGCTCAGGGTAAGCGTACACGCAGAC 2721 TCGTAATTTGACCGACACACGCAGA TCTCCGCTGCGGTAAGCGTACGAC 2722 CCTAGACGGATACCCTGAGCAGA TCTCCGCTGCGGTAAGCGTACGAC 2723 AAGCGACAGCACACACGCAG 2724 GCGTGGACGATACCCTGAGCGGAA TTCCGCTCAGGGTATCCGTCTAGG 2724 GCGTGGACGATACCCTGAGCGGAA TCCCCCAGGTGATACCGTCTAGG 2725 GTCGGACGACACACGCAG 2726 TATCCGCACGGTATACCCTGGGCGT ACGCCCAGGTGATACCGTCCGC 2726 TATCCGCACGGTATACCATGCAGT ACCCCAGGTGATACCGTCCGAC 2727 CATCAGTCGGCTACCTTCAGCCT AGGCTGACACACCCGACTACACT 2728 CGGATTAATGCATTCCCCTCAGCCT AGGCTGAAGGTACCCCCACTGATA 2729 TTCGTCGTGCCAAGCTACTCAGCT AGCCTGAAGGTAGCCCCAGCTACACT 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTACCTGGCCCACCGAC 2730 GGCCGAAGACCACACATACAAG CTTGCATTACTGGCACCACAAA 2730 GGCCGAAGACCACCAGTACAAGGTT AACCTGTTACTGGCACCACAAA 2730 GGCCGAAGACCACCAGTACAAGGTT AACCTGTTACTGGCACCACAAA 2731 CGCGCGGAAACCACCAGTACAAGGTT AACCTGTTACTGGCACCACAAA 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTAACTTCAATGCTTCCGGCCG 2731 CGCGCGGAAGCATCAACACAC GTGTTGCATTACCTGTCCTCTCTCTCTCTCTCTCTCTCTC	10	2712	AAAGATGGGTCGATGGGAGCGTCT	AGACGCTCCCATCGACCCATCTTT
2715 TGGTGGAGCGGACTCTGGTGTTAT ATAACACCAGAGTCCGCTCCACCA 2716 CACAATGAAAAACCAATGGCCCCA TGGGGCCATTGTTTTTTCATTGTG 2717 CCTTGCCGCGCTTTGTGTACCAAC GTTGGTACCACAAGCGCGGCAAGG 2718 CCGAGACCTTTGCCACACGAAAGA TCTTTCGTGTGGCAAAGGTCTCGG 2719 ACCGCGGTGTACACCTGAGCAGGC GCCTGCTCAGGTAACCGTCCGG 2719 ACCGCGGTTACACCTGAGCAGGC GCCTGCTCAGGTAACCGTACGAC 2720 GTCGTACGCTTACCGCAGCGGAAGA TCTCCGCTGCGGTAACCGTACGAC 2721 TCGTAATTTGACCGACACACGCAG CTGCGTGTGTCGGTCAAATTACGA 2722 CCTAGAACGGATACCCTGAGCGGAA TTCCGCTCAGGGTATCCGTCTAGG 2723 AAGCGACAGCAGAGGGTTCAGTCGC GCGACTGAACCTCTGCTGTCGCTT 2724 GCGTGGACGATATCACCTGGGCGT ACGCCCAGGTGATACCGTCTAGG 2725 GTCGGAGAGCCAGTGGTACGGCTT AAGCCGTACACTGGCTCTCCGAC 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACTGCTATACCGTGCGATA 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGACACTGGCTCTCCGAC 2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGGCACACGCAGAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACCTTGGCACGACAAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACCTTGGCACGACAAA 2731 CGCGCGAAGCATACAAGGTT AACCTGTTACCTTGGCACCGACGAA 2732 TCGGCTTACCGCTTCGTCTGACTT AACCTGTTACCTTGGCACGACGAA 2733 GACTGACGTCAAGGCAAACAACA GTGTTGCTTCACTCTCAGCCC 2734 AGAGGAAGGAAGCAACAAC GTGTTGCTTCACTCTCCTCTC		2713	ATCCTGGGCACGAGCGGATTTATC	GATAAATCCGCTCGTGCCCAGGAT
2716 CACAATGAAAAACAATGGCCCCA TGGGGCCATTGTTTTTTCATTGTG 2717 CCTTGCCGCGCTTGTGGTACCAAC GTTGGTACCACAAGCGCGGCAAGG 2718 CCGAGACCTTTGCCACACGAAAGA TCTTTCGTGTGGCAAAGGTCTCGG 2719 ACCGCGGTGTACACCTGAGCAGGC GCCTGCTCAGGTGTACACCGCGGT 2720 GTCGTACGCTTACCGCAGCGGAGA TCTCCGCTGCGGTAAGCGTACGAC 2721 TCGTAATTTGACCGACACGACG CTGCCTCAGGGTAAGCGTAAGCGAC 2722 CCTAGACGGATACCCTGAGCGGAA TTCCGCTCAGGGTAACCGTCAGG 2723 AAGCGACAGCAGAGGTTCAGTCGC GCGACTGAACCTCTGCTTAGG 2724 GCGTGGACGATATCACTGGGCGT ACGCCCAGGTAATCGTCCGCTT 2725 GTCGGAAGCCAGTGGTACGGCTT AAGCCGTAACCTTCGCTT 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACCTCTGGCTTCCGAC 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACCTATACCGTCCGAC 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTAACCTTACCGTGCGGATA 2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGCACGAC 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTGCACTAGCCC 2731 CGCGCGGAAGCCACCAGTAACAGGTT AACCTGTTACTGGTGGCCCGACGAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGGTGGTCTCCGGCC 2731 CGCGCGGAAGCATCAATGCAAG CTTGCATTAACCTTCCGCCGC 2731 CGCGCGGAAGCATCAATGCAAG CTTGCATTACCTGTTGCCCGCGC 2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCCGC 2732 TCGGCTTACCGCTTCGTCTGACTT AAGCCAGACGAAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAACAAC GTGTTGCTTGACCTTCCTCT 2735 TTCCAATGCGAGGAAGACAACAC GTGTTGCCTTTGACGTCCCTCTTCCTCT 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCCCCCTTCTTCCTCT 2737 GCTGTCGGAATATTGCAAGGCAAGAA TCTGTCACAGCCCCCTTCCTCTT 2738 CCGACTTTGTTTTATGTTGCGCC 2739 GCTGCGATTATTAGCAGCCCCAAA TTCTGGAGCACCCCCTTCTTCCTCT 2739 GCTGCGATTATACCCGTCCCAGAA TTCTGGAGCACCCCCTTCTTCCTCT 2739 GCTGCGATTATTAGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATTATTAGCTGGCG CGCCAGCAACATAAACAAAAGTCGG 2739 GCTGCGATTATACCCGTCCCAGAA TTCTGGAGGTTGACCCCCATCT 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGGAGATTTAGGATTGCGGC 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGGAGATTTAGGATGCTTGGGATCCTCTCTCCCCAACA TCTTCGGAGTTGACCGCCCCACTCAACATAAACCAACATAAACCAACACACAC		2714	TCACCGCATTTGATAGTTACGCGA	TCGCGTAACTATCAAATGCGGTGA
15 2717 CCTTGCGCGCTTGTGGTACCAAC GTTGGTACCACAAGCGCGGCAAGGC 2718 CCGAGACCTTTGCCACAGGAAGA TCTTTCGTGTGGCAAAGGTCTCGG 2719 ACCGCGGTGTACACCTGAGCAGGC GCCTGCTCAGGTGTACACCGCGGT 2720 GTCGTACGCTTACCGCAGCGGAGA TCTCCGCGGTAAGCGTACGAC 2721 TCGTAATTTGACCGACACGCGGA TCTCCGCTGCGGTAAGCGTACGAC 2721 TCGTAATTTGACCGACACACGCAG CTGCGTGTGTCGGTCAAATTACGA 2722 CCTAGACGGATACCCTGAGCGGAA TTCCGCTCAGGGTATCCGTCTAGG 2723 AAGCGACAGCAGAGGTTCAGTCGC GCGACTGAACCTCTGCTGTCGCTT 2724 GCGTGGACGATATCACCTGGGCGT ACGCCCAGGTGATATCGTCCACGC 2725 GTCGGAGAGCCAGTGGTACGGCTT AAGCCGTACCACTGGCTCTCCGAC 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACTGCTATACCGTGCGGATA 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGAAAGGCATAATCCG 2728 CGGATTAATGCCTTTCCTCGGAAT ATCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGCAAGCTAATGCAAG CTTGCATTAGCTTGGCACCGACAGAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACCTGTGGCCC 2731 CGGCCGAAGCACACAAGGATTAACAGGTTAACTTCAGTCCGGCC 2731 CGGCGGAAGCACACCAGTAACAGGTT AACCTGTTACTTCAGGCCC 2731 CGGCCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGGCCC 2731 CGGCCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGGCCG 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAAGCAACAC GTGTTGCTTGACTTCCTCTCTCT 2735 TTCCAATGCGAGGAAGCAACAC GTGTTGCTTTGCCTTGACTTC 2736 AAATGGGGTGCTAAGGCAAGCACAC GTGTTGCTTTGCCTTCCTCTCT 2737 GCTGTCGGATTATTTGCACGCCTGT ACAGGCACCCCCTTTCTCTCT 2738 CCGACTTTGTTTTATGTTGCCGCC CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATTATACCCGTCCCAGAA TTCTGGGACGGGTTAAACAAGTCGG 2739 GCTGCGATTATACCCGTCCCAGAA TTCTGGGACGGGTTAAACAAAGTCGG 2739 GCTGCGATTATACCCGTCCCAGAA TTCTGGGAGTTGACCGCCAGCTCA 2740 TGAGCTGGGCTCAACTCCCAGAA TCTTCGGAGTTTAACCCCCCCCACTCA 2741 CCCAAGCATCCTAAATCTCCCTCC CGAGAGAATTTAAGGATTGCTGGGATTAACCTCTGGGATTTAACCCGTCCCAGAA 10 CCCAAGCATCCTAAATCTCCCTCC CGAGAGAATTTAAGGATTGCTGGGATTAACCTCTGGGATTTAACCCGTCCCAGAA TCTTCGGAGTTTAACCGCCCCTCCAGAA 1 TCTGGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCC CGAGAGAATTTAAGGATTGCTGGGT		2715	TGGTGGAGCGGACTCTGGTGTTAT	ATAACACCAGAGTCCGCTCCACCA
2718 CCGAGACCTTTGCCACACGAAAGA TCTTCGTGTGGCAAAGGTCTCGG 2719 ACCGCGGTGTACACCTGAGCAGGC GCCTGCTCAGGTGTACACCGCGGT 2720 GTCGTACGCTTACCGCAGCGGAGA TCTCCGCTGCGGTAAGCGTACGAC 2721 TCGTAATTTGACCGACACACACGCAG CTGCGTGTGTCGGTCAAATTACGA 2722 CCTAGACGGATACCCTGAGCGGAA TTCCGCTCAGGGTATCCGTCTAGG 2723 AAGCGACAGCAGAGGTTCAGTCGC GCGACTGAACCTCTGCTGTCGCTT 2724 GCGTGGACGATATCACCTGGGCGT ACGCCCAGGTGATATCGTCCACGC 2725 GTCGGAGAGCCAGTGGTACGGCTT AAGCCGTACACCTCGCGCT 2726 TATCCGCACGGTATAGCACTTGCA TGCAACCTCGCTCCGAC 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGAACCTCTGCGGGATA 2728 CGGATTAATGCCTTCAGCCT AGGCTGAACCTGGCTCTCCGAC 2729 TTCGTCGGGCTACCTTCAGCCT AGGCTGAACCTGGCTCTCCGAC 2729 CGCGAGGACCACCTTCAGCCT AGGCTGAAAGTAGCCCGACTGATG 2729 TTCGTCGTGCCAACCTTTCAGCCT AGGCTGAAAGTAGCCCGACTAATCCG 2729 TTCGTCGTGCCAAGCTTAATGCAAT ATTCCGAGGAAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTTGCGCCC 2731 CGCCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCCC 2731 CGCGCGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCCG 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTAACTTCAATGCTTCCGCCGC 2733 GACTGACGTCAAGGCAACAC GTGTTGCTTGCCTTGCTCTCTC 2734 AGAGGAAGGAGGGCTTGACAACA TCTGTCACAGCCCCTCCTTCCTCT 2735 TTCCAATGCGAGAGAACAC GTGTTGCTTTGCCTTGACTT 2736 AAATGGGGTGCTTCGAATATGTCC CGACATATTCCAAGCCCCCACTTTC 2737 GCTGTCGGATTATTGCACGCCTTGT ACAGGCGTCAATCATCCGATTGAA 2738 CCGACTTTGTTTATGTTGCCGCC CGCCACCAACATAAACCAACGCCC 2739 GCTGCGAATAATCCCGTCCAACA TTCTGGGACGGTTAATCCGACGC 2739 GCTGCGAATATAACCCGTCCCAACA TTCTGGGACGGTTAATCCGACGC 2730 GCTGCGAATATAACCCGTCCCAACA TTCTGGGACGGTTAATCCGCACCACACACACACACACACA		2716	CACAATGAAAAAACAATGGCCCCA	TGGGCCATTGTTTTTCATTGTG
2719 ACCGCGGTGTACACCTGAGCAGGC GCCTGCTCAGGTGTACACCGCGGT 2720 GTCGTACGCTTACCGCAGCGGAGA TCTCCGCTGCGTAAGCGTACGAC 2721 TCGTAATTTGACCGACACACGCAG CTGCGTGTGTCGGTCAAATTACGA 2722 CCTAGACGGATACCCTGAGCGGAA TTCCGCTCAGGGTATCCGTCTAGG 2723 AAGCGACAGCAGAGGTTCAGTCGC GCGACTGAACCTCTGCTGTCGCTT 2724 GCGTGGACGATATCACCTGGGCGT ACGCCCAGGTGATATCGTCCACGC 2725 GTCGGAGAGCCAGTGGTACGGCTT AAGCCGTACCACTGGCTCTCCGAC 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACTGCTATACCGTGCGGATA 2727 CATCAGTCGGGCTACACTTCAGCCT AGGCTGAACGTCACACTGGCTTCCGAC 2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGGCACGAAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGTGGCACGACAA 2731 CGCGCGGAAGCATACAAGGTT AACCTGTTACTGTGGCACGACAA 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAACAC GTGTTGCTTGCCTTGACGTCCGCC 2734 AGAGGAAGGAGGGGCTGTGACAGA TCTGTCACGCCCTTCCTCTCTCTCTCTCTCTCTCTCTCTC	15	2717	CCTTGCCGCGCTTGTGGTACCAAC	GTTGGTACCACAAGCGCGGCAAGG
2720 GTCGTACGCTTACCGCAGCGGAGA TCTCCGCTGCGGTAAGCGTACGAC 2721 TCGTAATTTGACCGACACACGCAG CTGCGTGTGTCGGTCAAATTACGA 2722 CCTAGACGGATACCCTGAGCGGAA TTCCGCTCAGGGTATCCGTCTAGG 2723 AAGCGACAGCAGAGGTTCAGTCGC GCGACTGAACCTCTGCTGTCGCTT 2724 GCGTGGACGATATCACCTGGGCGT ACGCCCAGGTGATATCGTCCACGC 2725 GTCGGAGGACAGCAGTGGTACGGCTT AAGCCGTACCACTGGCTCTCCGAC 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACTGCTATACCGTGCGGATA 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGAAGGTAGCCCGACTGATG 2728 CGGATTAATGCATTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGGCACGACAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGTGCACGACAA 2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAGTGCGCCG 2731 CGCGCGGAAGCATCATGCATT AAGTCAGACGAAGCGGTAAGCCGA 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAACAC GTGTTGCTTGCCTTGACGTC 2734 AGAGGAAGGAGGGGCTGTGACAGA TCTGTCACAGCCCCTCCTTCCTCT 2735 TTCCAATGCGAGAGAGCAACAC GTGTTGCTTGCCTTGC		2718	CCGAGACCTTTGCCACACGAAAGA	TCTTTCGTGTGGCAAAGGTCTCGG
2721 TCGTAATTTGACCGACACGCAG CTGCGTGTGTCGGTCAAATTACGA 2722 CCTAGACGGATACCCTGAGCGGAA TTCCGCTCAGGGTATCCGTCTAGG 2723 AAGCGACAGCAGAGGTTCAGTCGC GCGACTGAACCTCTGCTGTCGCTT 2724 GCGTGGACGATATCACCTGGGCGT ACGCCCAGGTGATATCGTCCACGC 2725 GTCGGAGAGCCAGTGGTACGGCTT AAGCCGTACCACTGGCTCTCCGAC 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACTGCTATACCGTGCGGATA 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGAAGGTAGCCCGACTGATG 2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGGCACCACTGGTCTCCGGCA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGGTGGTCTCGGCC 2731 CGCGCGGAAGCATAACAGGTT AACCTGTTACTGGTGGTCTCGGCC 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAACAC GTGTTGCTTGACTTCACTGCCGCG 2734 AGAGGAAGGAGGAGCAACAC GTGTTGCTTGACGTCAGTC 2735 TTCCAATGCGAGAGAACACAC GTGTTGCTTGCCTTCGCTC 2736 AAATGGGGTGCTTCGAATATGCC CGACATATTCGAAGCACCCCATTT 35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTCAATAACCACACCCCATTT 35 CCGACTTTGTTTTATGTTGCTGCG CGCCAGCAACATAATCCGACACC 2738 CCGACTTTGTTTATGTTGCTGCG CGCCAGCAACATAATCCGACACC 2739 GCTGCGAATAAACCCGTCCCAGAA TCTGTGGAGTTGACGCCCACCACACCA		2719	ACCGCGGTGTACACCTGAGCAGGC	GCCTGCTCAGGTGTACACCGCGGT
2722 CCTAGACGGATACCCTGAGCGGAA TTCCGCTCAGGGTATCCGTCTAGG 2723 AAGCGACAGCAGAGGTTCAGTCGC GCGACTGAACCTCTGCTGTCGCTT 2724 GCGTGGACGATATCACCTGGGCGT ACGCCCAGGTGATATCGTCCACGC 2725 GTCGGAGAGCCAGTGGTACGGCTT AAGCCGTACCACTGGCTCTCCGAC 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACTGCTATACCGTGCGGATA 2727 CATCAGTCGGGCTACCACTTCAGCCT AGGCTGAAGGTAGCCCGACTGATG 2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTACCGTGCGCCAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGGTCTCGGCC 2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCGCG 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAACCAC GTGTTGCTTGCCTTGACGTCAGTC 2734 AGAGGAAGGAGGGGCTGTGACAGA TCTGTCACGCCCATCTCTCTCT 2735 TTCCAATGCGAGGAGAGCACACAC GTGTTGCTTCCCCCTCTTCCTCT 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT 35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACAATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TCTTCGGAGTTAATCCGACGC 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACCCCAGCCCCTCAACACCCCCCCCCACACACA		2720	GTCGTACGCTTACCGCAGCGGAGA	TCTCCGCTGCGGTAAGCGTACGAC
2723 AAGCGACAGCAGAGGTTCAGTCGC GCGACTGAACCTCTGCTGTCGCTT 2724 GCGTGGACGATATCACCTGGGCGT ACGCCCAGGTGATATCGTCCACGC 2725 GTCGGAGAGCCAGTGGTACGGCTT AAGCCGTACCACTGGCTCTCCGAC 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACTGCTATACCGTGCGGATA 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGAAGGTAGCCCGACTGATG 2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGGCACGACAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGGTGGTCTCGGCC 2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCGCG 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAACAC GTGTTGCTTGACGTCAGTC 2734 AGAGGAAGGAGGGGCTGTGACAGA TCTGTCACAGCCCCTCCTTCTCT 2735 TTCCAATGCGAGAGATGGCAGGCT AGCCTGCCATCTCTCTCT 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT 35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCAGAA TCTGGGACGGGTTAAACAACAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TCTTCGGAGTTGACGCCCAGCCACACATAAACAAAGTCGG 2731 TGAGCTGGGCGTCAACTCCCAAGA TCTTCGGAGTTGACGCCCAGCTCACCACCCCAGCCCCCAGCTCACCCCAGACATAAACCAACACACCCCCCCC		2721	TCGTAATTTGACCGACACACGCAG	CTGCGTGTGTCGGTCAAATTACGA
2724 GCGTGGACGATATCACCTGGGCGT ACGCCCAGGTGATATCGTCCACGC 2725 GTCGGAGAGCCAGTGGTACGGCTT AAGCCGTACCACTGGCTCTCCGAC 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACTGCTATACCGTGCGGATA 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGAAGGTAGCCCGACTGATG 2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGGCACGACGAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGGTGGTCTCGGCC 2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCGCG 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAACAC GTGTTGCTTGCCTTGACGTC 2734 AGAGGAAGGAGGGGCAACACAC GTGTTGCTTGCCTTGACGTC 2735 TTCCAATGCGAGAGAAGCAACAC GTGTTGCTTGCCTTCTCTCT 2735 TTCCAATGCGAGAGAATATGTCG CGACATATTCGAAGCACCCCATTT 35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCCGATATAACCCGTCCCAGAA TTCTGGGACGGCTTAATCCGACGC 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCCGAGTTTAATCGCAGC 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCCACATGCATTCTT AAGAATGCATGTGGATTTCGGG	20	2722	CCTAGACGGATACCCTGAGCGGAA	TTCCGCTCAGGGTATCCGTCTAGG
2725 GTCGGAGAGCCAGTGGTACGGCTT AAGCCGTACCACTGGCTCTCCGAC 2726 TATCCGCACGGTATAGCAGTTGCA TGCAACTGCTATACCGTGCGGATA 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGAAGGTAGCCCGACTGATG 2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGGCACGACGAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGGTGGTCTCGGCC 2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCGCG 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAAGCAACAC GTGTTGCTTGCCTTGACGTC 2734 AGAGGAAGGAGGGAGCAACAC GTGTTGCTTGCCTTGACGTC 2735 TTCCAATGCGAGAGATGGCAGAC TCTGTCACAGCCCCTCCTTCCTCT 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT 35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TCTTCGGAGTTGACGCCCAGCCCCAGCACACATAAACAAAGTCGG 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGGAGATTTAGGATGCTTGGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2723	AAGCGACAGCAGAGGTTCAGTCGC	GCGACTGAACCTCTGCTGTCGCTT
2726 TATCCGCACGGTATAGCAGTTGCA TGCAACTGCTATACCGTGCGGATA 2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGAAGGTAGCCCGACTGATG 2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGGCACGACGAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGGTGGTCTCGGCC 2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCGCG 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAAGCAACAC GTGTTGCTTGCCTTGACGTC 2734 AGAGGAAGGAGGGGCTGTGACAGA TCTGTCACAGCCCTCCTTCCTCT 2735 TTCCAATGCGAGAGAAGCAAGA TCTGTCACAGCCCCTCCTTCCTCT 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT 35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TCTTCGGAGTTGACGCCCAGCCCA		2724	GCGTGGACGATATCACCTGGGCGT	ACGCCCAGGTGATATCGTCCACGC
2727 CATCAGTCGGGCTACCTTCAGCCT AGGCTGAAGGTAGCCCGACTGATG 2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGGCACGACGAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGGTGGTCTCGGCC 2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCGCG 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCCGTAAGCCGA 2733 GACTGACGTCAAGGCAAGCACAC GTGTTGCTTGACGTCAGTC 2734 AGAGGAAGGAGGGGCTGTGACAGA TCTGTCACAGCCCCTCCTTCCTCT 2735 TTCCAATGCGAGAGATGGCAGGCT AGCCTGCCATCTCTCGCATTGGAA 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT 35 CTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TCTTCGGAGTTGACGACC 2740 TGAGCTGGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATTGGAATTGCTGTCG		2725	GTCGGAGAGCCAGTGGTACGGCTT	AAGCCGTACCACTGGCTCTCCGAC
2728 CGGATTAATGCCTTTCCTCGGAAT ATTCCGAGGAAAGGCATTAATCCG 2729 TTCGTCGTGCCAAGCTAATGCAAG CTTGCATTAGCTTGGCACGACGAA 2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGGTGGTCTCGGCC 2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCGCG 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAAGCAACAC GTGTTGCCTTGACGTCAGTC 2734 AGAGGAAGGAGGGGGCTGTGACAGA TCTGTCACAGCCCCTCCTTCCTCT 2735 TTCCAATGCGAGAGATGGCAGGCT AGCCTGCCATCTCCGCATTGGAA 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT 35 CCGACTTTGTTTATGTTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGCCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TCTTCGGAGCGGTTAATCGCAGC 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGAGATTTAGGATGCTTGCG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2726	TATCCGCACGGTATAGCAGTTGCA	TGCAACTGCTATACCGTGCGGATA
TTCGTCGTGCCAAGCTAATGCAAG  TTGCATTAGCTTGGCACGACGAA  TTGTACTGGTGCACGACGACGAA  TTGTACTGGTGTCTCGGCC  TTGCATTACTGGTGTCTCGGCC  TTGCATTACTGGTGTCTCGGCC  TTGTACTGGTGTCTCGGCC  TTGTACTGGTGTCTCGCCGCGC  TTGTACTTCAATGCTTCCGCCGCG  TTGTACTCAATGCTTCCGCCGCG  TTGTTGCTTGACGTTCAAGCCAAGC	<b>2</b> 5	2727	CATCAGTCGGGCTACCTTCAGCCT	AGGCTGAAGGTAGCCCGACTGATG
2730 GGCCGAGACCACCAGTAACAGGTT AACCTGTTACTGGTGGTCTCGGCC 2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCGCG 30 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAAGCACAC GTGTTGCTTGACGTCAGTC 2734 AGAGGAAGGAGGGGGCTGTGACAGA TCTGTCACAGCCCCTCCTTCCTCT 2735 TTCCAATGCGAGAGATGGCAGGCT AGCCTGCCATCTCTCGCATTGGAA 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT 35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TCTTCGGAGTTGACGCCCAGCTCA 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2728	CGGATTAATGCCTTTCCTCGGAAT	ATTCCGAGGAAAGGCATTAATCCG
2731 CGCGCGGAAGCATTGAAGTTACTA TAGTAACTTCAATGCTTCCGCGCG 2732 TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA 2733 GACTGACGTCAAGGCAAGCAACAC GTGTTGCTTGCCTTGACGTCAGTC 2734 AGAGGAAGGAGGGGCTGTGACAGA TCTGTCACAGCCCCTCCTTCCTCT 2735 TTCCAATGCGAGAGATGGCAGGCT AGCCTGCCATCTCTCGCATTGGAA 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT 35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TCTTCGGAGTTAATCGCAGC 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2729	TTCGTCGTGCCAAGCTAATGCAAG	CTTGCATTAGCTTGGCACGACGAA
TCGGCTTACCGCTTCGTCTGACTT AAGTCAGACGAAGCGGTAAGCCGA  2733 GACTGACGTCAAGGCAAGCACAC GTGTTGCTTGCCTTGACGTCAGTC  2734 AGAGGAAGGAGGGGCTGTGACAGA TCTGTCACAGCCCCTCCTTCCTCT  2735 TTCCAATGCGAGAGATGGCAGGCT AGCCTGCCATCTCTCGCATTGGAA  2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT  35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC  2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG  2739 GCTGCGATATAACCCGTCCCAGAA TTCTGGGACGGGTTATATCGCAGC  2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA  2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGAGATTTAGGATGCTTGGG  40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2730	GGCCGAGACCACCAGTAACAGGTT	AACCTGTTACTGGTGGTCTCGGCC
2733 GACTGACGTCAAGGCAAGCACC GTGTTGCTTGACGTCAGTC 2734 AGAGGAAGGAGGGGCTGTGACAGA TCTGTCACAGCCCCTCCTTCCTCT 2735 TTCCAATGCGAGAGATGGCAGGCT AGCCTGCCATCTCTCGCATTGGAA 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT  35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TCTTGGGACGGGTTATATCGCAGC 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2731	CGCGCGGAAGCATTGAAGTTACTA	TAGTAACTTCAATGCTTCCGCGCG
2734 AGAGGAAGGAGGGCTGTGACAGA TCTGTCACAGCCCCTCCTTCCTCT 2735 TTCCAATGCGAGAGATGGCAGGCT AGCCTGCCATCTCTCGCATTGGAA 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT 35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TTCTGGGACGGGTTATATCGCAGC 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG	30	2732	TCGGCTTACCGCTTCGTCTGACTT	AAGTCAGACGAAGCGGTAAGCCGA
2735 TTCCAATGCGAGAGATGGCAGGCT AGCCTGCCATCTCTCGCATTGGAA 2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT  35 2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TTCTGGGACGGGTTATATCGCAGC 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2733	GACTGACGTCAAGGCAAGCAACAC	GTGTTGCTTGCCTTGACGTCAGTC
2736 AAATGGGGTGCTTCGAATATGTCG CGACATATTCGAAGCACCCCATTT  2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC  2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG  2739 GCTGCGATATAACCCGTCCCAGAA TTCTGGGACGGGTTATATCGCAGC  2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA  2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGAGATTTAGGATGCTTGGG  40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2734	AGAGGAAGGAGGGCTGTGACAGA	TCTGTCACAGCCCCTCCTTCCTCT
2737 GCTGTCGGATTATTGCACGCCTGT ACAGGCGTGCAATAATCCGACAGC 2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TTCTGGGACGGGTTATATCGCAGC 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2735	TTCCAATGCGAGAGATGGCAGGCT	AGCCTGCCATCTCTCGCATTGGAA
2738 CCGACTTTGTTTATGTTGCTGGCG CGCCAGCAACATAAACAAAGTCGG 2739 GCTGCGATATAACCCGTCCCAGAA TTCTGGGACGGGTTATATCGCAGC 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2736	AAATGGGGTGCTTCGAATATGTCG	CGACATATTCGAAGCACCCCATTT
2739 GCTGCGATATAACCCGTCCCAGAA TTCTGGGACGGGTTATATCGCAGC 2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG	35	2737	GCTGTCGGATTATTGCACGCCTGT	ACAGGCGTGCAATAATCCGACAGC
2740 TGAGCTGGGCGTCAACTCCGAAGA TCTTCGGAGTTGACGCCCAGCTCA 2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2738	CCGACTTTGTTTATGTTGCTGGCG	CGCCAGCAACATAAACAAAGTCGG
2741 CCCAAGCATCCTAAATCTCCCTCG CGAGGGAGATTTAGGATGCTTGGG 40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2739	GCTGCGATATAACCCGTCCCAGAA	TTCTGGGACGGGTTATATCGCAGC
40 2742 CGACAGCAATCCACATGCATTCTT AAGAATGCATGTGGATTGCTGTCG		2740	TGAGCTGGGCGTCAACTCCGAAGA	TCTTCGGAGTTGACGCCCAGCTCA
		2741	CCCAAGCATCCTAAATCTCCCTCG	CGAGGGAGATTTAGGATGCTTGGG
2743 TGAATGGTCGGGAAACCAATGCAT ATGCATTGGTTTCCCGACCATTCA	40	2742	CGACAGCAATCCACATGCATTCTT	AAGAATGCATGTGGATTGCTGTCG
		2743	TGAATGGTCGGGAAACCAATGCAT	ATGCATTGGTTTCCCGACCATTCA

2744   CTTTGCATCGAGATGCGGGGTAGC   GCTACCCGCATCTCGATGCAAAG   2745   TCCATTTCCTCGCAACTCTCAGG   CCTGAGAGTTGCGGAGGAAATTGGA   2747   TCATACGCCATCCTGACAACGAG   CTCGTTGTCAGGAGGAGGAATTGGAG   2747   TAGTAAGGCCAATGTAGCGCTTCT   GGAGGGCGTACATTGCACTACTA   2749   ACCGGTAGACGTTAGCGGGTTCAA   TTGAACCCGCTAACCGTCTCCAGACCACCACCTCTCAA   2750   TTGGTTCAACGGGCTCAACTTTCAA   TTGAACCCGCTAACCCATCCCGGT   2750   TTGGTTCAAACGGCCACACGTCTC   GAAAACAGGCCCCATATGCACCAA   2751   GACACAAACTGCAGAGGAGGAGCATC   GAGACGTTGCACCAACCAA   2751   GACACAAACTGCAAGGGAGGCATC   GAGACGTTGCACCAACCAA   2752   CTCGAGCGCTGTCATCATATCGGC   GCCGATATGATGACCCACACCTCTC   2753   GCGGCTAACGCACACGTCTC   GACACCAACCCGCCTCAGC   2754   ACAGCCTAAATGGCGCAAGTAGACGTG   CACCTCTTCTTGCACTTTGCCGCC   2754   ACAGCCTAAATGGCGCAAGACCGA   TCGGTCTTGCGCCTTTAGCCGC   2755   ACGACTAAACGCGCCAGACCAACCACACCACACCACCACCACCACC				
2746		2744	CTTTGCATCGAGATGCGGGGTAGC	GCTACCCGCATCTCGATGCAAAG
2747   TAGTAAGGCCAATGTACGCCGTCC   GGACGGCGTACATTGGCCTTACTA		2745	TCCATTTCCTCCGCAACTCTCAGG	CCTGAGAGTTGCGGAGGAAATGGA
5         2748         GTCATGCATATGGGGCCTGTTTTC         GAAAACAGGCCCCATATGCATGAC           2749         ACCGGTAGACGTTAGCGGGTTCAA         TTGAACCGCTAACGTCTACCGGT           2750         TTGGTTCAAACGGCCACAGTCTC         GAGACGTGTGCCCCTTTGAACCAA           2751         GACACAAACTGCAAAGGAAGGAGGATG         CATGCCCCCCTTGCAGTTTGATTCACTCTTGCCCTCCAGTCCCCCTCCAGCCCCTCCAGCCCTCCAGCCCCTCCAAGCCAAGTAGACCGTCCACCATTTAGCCGC           2753         GCGCTAAAGCCAAAGACCCAA         TCGGTCTTGCCCATTTAGCCGC           2754         ACAGCCTAAATGCGCAAGCCCA         TCGGTCTTGCCCATTTAGCCGC           2755         CCGATGATGTAAGCCGTCGGCCCT         AGGACCAAACAAACGCCAGTGACA         TGTCACTGGCGTTTAGATCATCGG           2756         AGGACCAAACAACGCCAGTGACA         TGTCACTGCGGTTTGTTTTTTGCTCACTTCGCA           2757         ACGAATTGGGTAGCCGGACTGAGA         TCTCAGTCCGGAACTGCAAACACCCATTCGTC           2758         CTGTTCCAGTTCGCACATTCCGCACCTTTCCCGACCTTCTCCCAACTTCGCACCACCACCACCACCACCACCACCACCACCACCACCA		2746	CCACTACGCCATCCTGACAACGAG	CTCGTTGTCAGGATGGCGTAGTGG
2749   ACCGGTAGACGTTAGCGGGTTCAA   TIGAACCCGCTAACGTCTACCGGT		2747	TAGTAAGGCCAATGTACGCCGTCC	GGACGCCTACATTGCCCTTACTA
2750 TTGGTTCAAACGGCCACACGTCTC 2751 GACACAAACTGCAAGGGAGGCATG 2752 CTCGAGCGCTGTCATCATATTCGGC 2752 CTCGAGCGCTGTCATCATATTCGGC 2753 GCGGCTAAGGCACAAGTAGACGTG 2754 ACAGCCTAAATGGCGCAAGACCGA 2755 GCGGTAAGGCACAAGTAGACGTG 2756 ACAGCCTAAATGGCGCAAGACCGA 2756 AGGACCAAACCACCGCCT 2757 ACGAATTGGAGCACAAGACCGA 2757 ACGAATTGGGTAGCCGCAAGACCGA 2758 CTGTTCCAGTTTCGGCCAAGACCGA 2759 AGCAAACAAACGCCAGTGACA 2759 AGACAAGTCAGGTTCCGCCCT 2760 AGACCAGCGCTTACCCAATTCGT 2761 AGGACCGGCACGGCTTCCCCAACTCGT 2762 AGACCAGTCCCCAATTCCG 2763 AGACCAGCCGACTGCCCA 2764 TGGTCCCGACTCTCCCCAACCGCTTCCCCAACTCGCTCCCCACCCCATTCCCCCACCCCCCCC	5	2748	GTCATGCATATGGGGCCTGTTTTC	GAAAACAGGCCCCATATGCATGAC
2751 GACACAAACTGCAAGGGAGGCATG 2752 CTCGAGCGCTGTCATCATATCGGC 2753 GCGGCTAAGGCACAAGTAGATCGGC 2754 ACAGCCTAAATGGCGCACAAGTAGACCGA 2755 CCGATGATGTAGACCGTCGGCCCT 2756 ACAGCCTAAATGGCGCACAAGCCGA 2756 CCGATGATGTAACCGTCGGCCCT 2757 ACGATTGGTGACCGGCCCT 2757 ACGATTGGTGACCGGCCCT 2757 ACGATTGGTGACCGGCCCT 2758 CTGTTCCAGTTCGGCACTTACTCTCGGCTTTGTTTGTTCCTCCT 2757 ACGAATTGGGTAGCCGGCACTGAGA 2758 CTGTTCCAGTTCGGCAAGTGCGGC 2759 AGACAAGTCAGGAACGCCAGTGACA 2759 AGACAAGTCAGGACACGCCTTCCGCCAACTGCAACTGCTCT 2760 AGACGACGGCCAGATACGCTGCCA 2761 AGGAACGCGTTTCCGCCAAGTGCGCC 2762 AGACACCGCAAGTACCCTCCCA 2763 AGACAAGTCAGGAACCGCGTTTCCG 2764 AGGAACGCGTTTCTCCGGTTCTTC 2765 CGGAAACACAACACAAGGCCATC 2765 CCGTATGCCACCTCCAGAACTCAA 2766 GTAAAGCAACTCCCCCAGAACTCAA 2766 GTAAAGCAACCCCTCCGGAACTCAA 2766 GTAAAGCAACTCAAA 2766 GTAAAGCAACCCTCCGGAACTCAA 2767 GCCTGATGCTCTGAGAATCCT 2769 TTCTCAGGCTGGCAAGATCCT 2769 TTCTCAGGCTGGGAATCCT 2769 TTCTCAGGCTGGGAATCCT 2770 CGGACCTGGGAATCCT 2770 CGGACCTGGGAATCCT 2771 TCGAGCCGGGAATCCT 2771 TCGAGCCGTAGGGCAAGATCCT 2772 TACGTGTGCCCACACAGATCCT 2773 TGGAAATTCCCACACAGGTCGAACTCAA 2776 CGCACTTGGACCATGAGATCCT 2777 TACGTGTTGCCCCACACACGTCGAACTCAA 2777 TACGTGTTGCCCCACACACGTCGAACTCCCCAGGCCTAGGAACCCTTACGGCTCGAAACCCTTACGGCTCGAAACCCCTTACGGCTCGAAACCCTTACGGCTCGAAACCCTTACGGCTCGAAACCCTTACAGGCATCCCCAAGCACCTTTACCAGCCTTACAGGCATCCCCAAGCCTTACAGGAATCCT 2771 TCGAGCCTGGGAATACGTTGA TCAGATCTCATGGGTCCAAGCCTTGAACACCCTTACGGCTCGAAACACGTTGCAACACCGTAACACGTCAACGCAACGTTGCAACACCTTTTACCAACCCCTTACGGCTCGAAACACGTACACGCAACGTTGCAACACCTTTTTTTT		2749	ACCGGTAGACGTTAGCGGGTTCAA	TTGAACCCGCTAACGTCTACCGGT
2752   CTCGAGCGCTGTCATCATATCGGC   GCCGATATGATGACAGCGCTCGAG		2750	TTGGTTCAAACGGCCACACGTCTC	GAGACGTGTGGCCGTTTGAACCAA
10 2753 GCGGCTAAGGCACAAGTAGACGTG CACGTCTACTTGTGCCTTAGCCGC 2754 ACAGCCTAAATGGCGCAAGACCGA TCGGTCTTGCGCCATTTAGGCTGT 2755 CCGATGATGTAAGCCGTCGGCCCT AGGGCCGACGGCTTACATCATCGG 2756 AGGAGCAAACAAACGCCAGTGACA TGTCACTGGCGTTTGTTTGCTCCT 2757 ACGAATTGGGTAGCCGGACTGAGA TCTCAGTCCGGCTTACATCATCGT 2758 CTGTTCCAGTTCGGCAAGTGCGGC GCCGCACTTGCCGAACCAGTCGACA 2759 AGACAAGTCAGGAACGCCGAACTGAGA TCTCAGTCCGGACCTGACCAATCGT 2760 AGACGACGGCCAAGTACGCTGCCA TGGCAGCTTCCTGACTTGTCT 2761 AGGAAGCCGTTCTTCCGGTTCTTC GAAGAACCCGAACGACTGCTCCT 2762 GATGGACGCAAACACAAGGCGATC 2763 CGCATAGCAGTCTCCGCATCTTGG CCAAGATGCGAACTGCAACCATCCCATC		2751	GACACAAACTGCAAGGGAGGCATG	CATGCCTCCCTTGCAGTTTGTGTC
2754 ACAGCCTAAATGGCGCAAGACCGA TCGGTCTTGCGCCATTTAGGCTGT 2755 CCGATGATGTAAGCCGTCGGCCCT AGGGCCGACGGCTTACATCATCAGC 2756 AGGAGCAAACAAACGCCAGTGACA TGTCACTGGCGTTTGTTTGCTCCT 2757 ACGAATTGGGTAGCCGGACTGAGA TCTCAGTCCGACTTGCTGAACAG 2758 CTGTTCCAGTTCGGCAAGTGCGG CCCGCACTTGCCGAACTGACA 2759 AGACAAGTCAGGAACGCGTTTCCC GGGAAACGCGTTCCTGACTTGTCT 2760 AGACGACGGCCAGATACGCTGCC TGGCAACTGCGCGTTCCTGAACTGTCT 2761 AGGAAGCGCTTCTTCCGGTTCTTC GAAGAACCGGAAGAAGCGCTTCCT 2762 GATGGACGCAACACAAGGCGATC GATCGCCTTGTTTTGCTCCT 2763 CGCATAGCAGTCTCCGCATCTTGG CCAAGATGCGGAACAC 2764 TGGTTCCGGTGTGCAACAGATAAA TTTATCTGTTGACACCGGAACCA 2765 CCGTATGCACCTCCAGAACTCAA TTGAGTTCTGAAGAGCGATACGG 2766 GTAAAGGAACCCCTCGGGAATCCA TGGATTCCGCAGGGGAACAC 2767 GCCTGATGCTCGTTAAAATTGCGT ACGAATTTTAACGAGCATCAGGC 2768 TCGCACTTGGACCATGAACTCAA TCAAGATTCCCGAGGGGTTCCTTTAC 2769 TTCTCAGGCTGGGCAAGAGTCGA TCAAGATCCCCAGAGGGGTTCCTTTAC 2769 TTCTCAGGCTGGGCAAGAGTTGA TCAGATCTCATGGTCCAACTGGAA 2770 CGGACCTGGGGAAGATCTA TCAGATCTCATGGTCCAAGTGCGA 2771 TCGAGCCGATAGGGTTGGCATTGC GCAACACTCCCCAGGTCCG 2771 TCGAGCCGATAGGGTTGGCATTGC GCAACCCTCCCAGCCTCGAGAA 2772 TACGTGTTCCCACACACGTCGT TACAGACCTTTTCCCCACCCCTGAGAA 2773 TGTGAAATTCGCGTTTGCACTCTT AAGATGCCAACCCTACCGGTCCG 2774 TTGCAATCCCACACACGTCGTA TACCACCGTTGGGACACCGTTGCACACCTTTTACCACCGCTTGAAACCCACGTTGCACCCTCGAGAACCCTTTTTTTT		2752	CTCGAGCGCTGTCATCATATCGGC	GCCGATATGATGACAGCGCTCGAG
2755 CCGATGATGTAAGCCGTCGGCCCT AGGGCCGACGGCTTACATCATCGG 2756 AGGAGCAAACAAACGCCAGTGACA TGTCACTGGCGTTTGTTTGCTCCT 2757 ACGAATTGGGTAGCCGGACTGAGA TCTCAGTCCGGCTACCCAATTCGT 2758 CTGTTCCAGTTCGGCAAGTGCGGC GCCGCACTTGCCGAACTGGAACAG 2759 AGACAAGTCAGGAACGCGTTTCCG CGGAAACGCGTTCCTGACTTGTCT 2760 AGACGACGGCCAGATACGCTGCCA TGGCAGCGAACTGGACTGC 2761 AGGAAGGCGCTTCTCCGGTTCTTC GAAGAACCGGAAGAAGACGCGTTCCT 2762 GATGGACGCAACACAAGGCGATC GATCGCCTTGTTTTCT 2763 CGCATAGCAGTCTCCGCATCTTGG CCAAGATGCGAGAGAAGACGCGTTCCT 2764 TGGTTCCGGTTGTTGG CCAAGATGCGAGAGAAGACCCATATCGG 2764 TGGTTCCGGTTGTTGG CCAAGATGCGAGAGAACCCAACCAACACAACA	10	2753	GCGGCTAAGGCACAAGTAGACGTG	CACGTCTACTTGTGCCTTAGCCGC
2756 AGGAGCAAACAAACGCCAGTGACA TGTCACTGGCGTTTGTTTGCTCCT 2757 ACGAATTGGGTAGCCGGACTGAGA TCTCAGTCCGGCTACCCAATTCGT 2758 CTGTTCCAGTTCGGCAAGTGCGGC GCCGCACTTGCCGAACTGGAACAG 2759 AGACAAGTCAGGAACGCGTTTCCG CGGAAACGCGTTCCTGACTTGTCT 2760 AGACGACGGCCAGATACGCTGCCA TGGCAGCGTATCTGGCCTGCTCT 2761 AGGAAGGCGCTTCTTCCGGTTCTTC GAAGAACCGGAAACACGCGTTCCTT 2762 GATGGACGCAACACACAAGGCGATC GATCGCCTTGTTTTTCTCTCTCTCTTCTCT		2754	ACAGCCTAAATGGCGCAAGACCGA	TCGGTCTTGCGCCATTTAGGCTGT
2756 AGGAGCAAACGACGCAGTGACA TGTCACTGGCGTTTGTTTGCTCCT 2757 ACGAATTGGGTAGCCGGACTGAGA TCTCAGTCCGGCTACCCAATTCGT 2758 CTGTTCCAGTTCGGCAAGTGCGGC GCCGCACTTGCCGAACACAC 2759 AGACAAGTCAGGAACGCGTTTCCG CGGAAACGCGTTCCTGACTTGTCT 2760 AGACGACGCCAGATACGCTGCCA TGGCAGCCGTTCTGCTCTCCGACACAC 2761 AGGAAGCGCTTCTTCCGGTTCTTC 2762 GATGGACGCAAACACAAGGCGATC GAACACGCGATCTGTCTTC 2763 CGCATAGCAGATCCGCATCTTGC CAAGAACCGGAAGAAGCGCTTCCT 2764 TGGTTCCGGTTGTCCGCATCTTGC CCAAGATGCGGAGACTGCTATGCG 2765 CCGATAGCAGTCTCCGCATCTTGG CCAAGATGCGGAGACTGCTATGCG 2766 GTAAAGCACCCTCCAGAACTCAA TTTATCTGTTGCACACCGGAACCA 2766 GTAAAGGAACCCCTCGGGAATCCT AGGATTCCCGAGGGGTTCCTTTAC 2767 GCCTGATGCTCTGTAAAATTGCGT ACGAATTTTAACGAGCATCAGGA 2768 TCGCACTTGGACCATGAGATCTAA TCAGATCTCATGGTCCAAGCAGAGAA 2769 TTCTCAGGCTGGGCAAGAGTCTGA TCAGATCTCATGGTCCAAGGCGAACACACAGATAAA TTTATCCAGTTCACAGCATCAGAACACAGAACACAGAACACAAGAACACAAGAACACAAGAACACAAGAACACAAGAACACAAGAACACAACA		2755	CCGATGATGTAAGCCGTCGGCCCT	AGGGCCGACGGCTTACATCATCGG
15 2758 CTGTTCCAGTTCGGCAAGTGCGGC GCCGCACTTGCCGAACTGGAACAG 2759 AGACAAGTCAGGAACGCGTTTCCG CGGAAACGCGTTCCTGACTTGTCT 2760 AGACGACGGCCAGATACGCTGCCA TGGCAGCGTTCCTGCTCT 2761 AGGAAGCGCTTCTTCCGGTTCTTC GAAGAACCGGAAGAAGCGCTTCCT 2762 GATGGACGCAAACACAAGGCGATC GATCGCCTTGTGTTTTGCGTCCATC 2762 GATGGACGCAAACACAAGGCGATC GATCGCCTTGTGTTTGCGTCCATC 2763 CGCATAGCAGTCTCCGCATCTTGG CCAAGATGCGGAGACTGCTATGCG 2764 TGGTTCCGGTGTGCAACAGATAAA TTTATCTGTTGCACACCGGAACCA 2765 CCGTATGCCACCTCCAGAACTCAA TGAGTTCTGGAGGTGGCATACGG 2766 GTAAAGGAACCCCTCGGGAATCCT AGGATTCCCGAGGGGTTCCTTTAC 2767 GCCTGATGCTCGTTAAAATTGCGT ACGCATTTTAACGAGCATCAGGC 2768 TCGCACTTGGACCATGAGATCTGA TCAGATTCTCATGGTCCAAGTGCGA 2769 TTCTCAGGCTGGGAATCTT ACGACTCTTTGCCCAGCCTGAGAA 2770 CGGACCTGGGGATGCTGT ACAGACTCTTGCCCAGCCTGAGAA 2771 TCGAGCCGATAGGGTTGGCATTAC GTAATCCCAGCATCCCAGGTCCG 2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA 2772 TACGTGTGTCCCACACACGTCGTA TACGACGTTGTGGGACACACGTA 30 2773 TGTGAAATTCGCGTTTCGATCTT AAGATGCGAAACCCAACACGTA 2774 TTGCAATGCTCCAAAAAAACTGCC GGCAATTTTTTTGGAGCAATTCACA 2775 TCTCATCATGGCTTTGGATTCT AAGATGCGAAACCCAAGCATTACAC 2776 ATTACACCGCTTTGGTTTTGAACTCTC 2777 GCCGTGCAATGCACAGAGTTCAAG CTCAAACCAAGCAGCATTTCACA 2777 GCCGTGCAATGCACAGAGTTCAAG CTCAAACCAACCGTAATTGCAC 2778 GAGATCAGACCGTTGGATTGC CACCTCCAAACCAACCATGATGAAA 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATCTC 2779 CCACCTATCTTTGATGCACCTGGA TCCAGGCCACCACCGTCTGATCTC 2779 CCACCTATCTTGATGCACCTGGA TCCAGCACCCATCAAAAAACGGCGATTTCACC 2778 GAGATCAGACCGTGTGCGATCTC CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCCATCAAAAAAACGGCGATTTTC 2778 GAGATCAGCCGTTTTGAC GCCGCATCCAAACCAAGCGGATTGCAC 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAACGCAACTTTTCACA 40 2783 TGTGAAATGGGCAGGTCTCAAGGAATAAACGGCGAATTTTCACA	9	2756	AGGAGCAAACAAACGCCAGTGACA	TGTCACTGGCGTTTGTTTGCTCCT
2759 AGACAAGTCAGGAACGCGTTTCCG CGGAAACGCGTTCCTGACTTGTCT 2760 AGACGACGGCCAGATACGCTGCCA TGGCAGCGTACTGGCCGTCT 2761 AGGAAGCGCTTCTTCCGGTTCTTC GAAGAACCGGAAGAAGCGCTTCCT 2762 GATGGACGCAAACACAAGGCGATC GATCGCCTTGTGTTTGCGTCCATC 2762 GATGGACGCAAACACAAGGCGATC GATCGCCTTGTGTTTGCGTCCATC 2763 CGCATAGCAGTCTCCGCATCTTGG CCAAGATGCGGAGACTGCTATGCG 2764 TGGTTCCGGTGTGCAACAGATAAA TTTATCTGTTGCACACCGGAACCA 2765 CCGTATGCCACCTCCAGAACTCAA TGAGTTCCGAGGGGGTGCCATACGG 2766 GTAAAGGAACCCCTCGGGAATCCT AGGATTCCCGAGGGGTTCCTTTAC 2767 GCCTGATGCTCGTTAAAATTGCGT ACGCAATTTTAACGAGCATCAAGCA 2768 TCGCACTTGGACCATGAGATCTGA TCAGATCTCATGGTCCAAGCTAGAAC 2769 TTCTCAGGCTGGGCAAGAGTCTGT ACACACCTTAGCCCAGCCTGAGAA 2770 CGGACCTGGGGATGCTGGTAAAACCCAACCCTATCGGCTCGA 2771 TCGAGCCGATAGGGTTGC GCAATGCCCAGCCTTAGCAA 2772 TACGTGTGTCCCAACACAGTCGTA TACGACCTTTCGCCCAGCCTCGA 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCCAACCCTATCGGCTCGA 2774 TTGCAATGCTCCAAAAAAACTGCC GCAATGTTGTTTCACA 2775 TCTCATCATGGCTGTGGCTTTTAACCGGCTGTGGAAACGCGAATTTTCACA 2776 ATTACACCGCTTTGGACTCTT AAGATGCCAACCCAAGCCATAATGAGAA 2777 GCCGTGCAATACAAAACTGCC GCACTCCAAACCCAAGCGGTAAT 2777 GCCGTGCAAAAAAACTGCC GCACTTTTTTTTTTGGAGCATTGCAA 2777 GCCGTGCAATGCAAGAGTTCAAG CTTGAACCCAAGCCATGATGAAA 2777 GCCGTGCAATGCAAGAGTTCAAG CTTGAACCCAAGCCATGATGAAA 2777 GCCGTGCAATGCAAGAGTTCAAG CTTGAACCCAAGCCATGATGAAA 2778 GAGATCAGACCGTTTGGATCTG CACCACCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCAAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 2780 CCACCTTTGTTTGGACTGC CACCACCCAACCCATCCGACCAGCCATGATGCACAGCCATCCCAAACCAAGCGGTTTATTTCCACGCC GCCGTAGACATAAACGGCGATCTTC 2780 CCACCTTCTTGATGCCACCGGC GCCGTAGACATAAACGGCGATCTTC 2781 GAAAATCACGGTAAGGCACCTTCG CGAACGTCCCTTACCGTGATTTTC 2782 GATTCTCCCAACAGAGCATA TATGCTCTTTGGAACTTCACA		2757	ACGAATTGGGTAGCCGGACTGAGA	TCTCAGTCCGGCTACCCAATTCGT
2760 AGACGACGGCCAGATACGCTGCCA TGGCAGCGTATCTGGCCGTCGTCT 2761 AGGAAGCGCTTCTTCCGGTTCTTC GAAGAACCGGAAGAAGCGCTTCCT 2762 GATGGACGCAAACACAAGGCGATC GATCGCCTTGTGTTTGCGTCCATC 2762 GATGGACGCAAACACAAGGCGATC GATCGCCTTGTGTTTGCGTCCATC 2763 CGCATAGCAGTCTCCGCATCTTGG CCAAGATGCGGAAGACTGCTATGCG 2764 TGGTTCCGGTGTGCAACAGATAAA TTTATCTGTTGCACACCGGAACCA 2765 CCGTATGCCACCTCCAGAACTCAA TTGAGTTCTGGAGGTGGCATACGG 2766 GTAAAGGAACCCCTCGGGAATCCT AGGATTCCCGAGGGGTTCCTTTAC 2767 GCCTGATGCTCGTTAAAATTGCGT ACGCAATTTTAACGAGCATCAGGC 2768 TCGCACTTGGACCATGAGATCTGA TCAGATCTCATGGTCCAAGTGCGA 2769 TTCTCAGGCTGGGCAAGAGTCTGT ACAGACTCTTGCCCAGCCTGAGAA 2770 CGGACCTGGGGATGCTGGGATTAC GTAATCCCAGCCTCGAGAA 2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGTCCGA 2772 TACGTGTGCCCACACACGTCGTA TACGACCGTATCGGACACCGTA 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA 2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATGAGA 2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 2778 GAGATCAGACCGTGTTGAG CTTGAACTCTGTGCATTGCACGGC 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACAACAGGTGTAATTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAACAGGTGGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACAAAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTCCTTACCGTGATTTTC 2782 GATTCTCCCAACAGAGGATTA TATGCTCGTTGGGAAGCGAAATTC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA	15	2758	CTGTTCCAGTTCGGCAAGTGCGGC	GCCGCACTTGCCGAACTGGAACAG
2761 AGGAAGCGCTTCTTCCGGTTCTTC 2762 GATGGACGCAAACACAAGGCGATC 2762 GATGGACGCAAACACAAGGCGATC 2763 CGCATAGCAGTCTCCGCATCTTGG 2764 TGGTTCCGGTGTGCAACAGATAAA 1TTATCTGTTGCACACCGGAACCA 2765 CCGTATGCCACCTCCAGAACTCAA 1TGAGTTCCGGATGCACCACACGGAACCA 2766 GTAAAGGAACCCCTCCAGAACTCAA 1TGAGTTCCGAGGGGTTCCTTTAC 2767 GCCTGATGCTCGTTAAAATTGCGT 2768 TCGCACTTGGACCATGAAATTTAACGAGGATCCAAGGCATCAGGC 2769 TTCTCAGGCTGGGCAATCCT 2770 CGGACCTGGGGATGCTGA 2771 TCGAGCCGATAGGGTTGGCATTAC 2771 TCGAGCCGATAGGGTTGCCACCCTCAGGATCCCCAGGCTCGG 2771 TCGAGCCGATAGGGTTGGCATTAC 2772 TACGTGTGTCCCACACACGTCGTA 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA 2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCATTTAACGCACCACACGCATGCAACACGTAACCACACGCATGCAACACGTAACCACACGCATGCAACACGTAACCACACGCATGCAACACGTAACACACGTCGAACCACACGCATGCACACACGTTGCACACACA		2759	AGACAAGTCAGGAACGCGTTTCCG	CGGAAACGCGTTCCTGACTTGTCT
2762 GATGGACGCAAACACAAGGCGATC GATCGCCTTGTGTTTGCGTCCATC 2763 CGCATAGCAGTCTCGCATCTTGG CCAAGATGCGAGACTGCTATGCG 2764 TGGTTCCGGTGTGCAACAGATAAA TTTATCTGTTGCACACCGGAACCA 2765 CCGTATGCCACCTCCAGAACTCAA TTGAGTTCTGGAGGTGGCATACGG 2766 GTAAAGGAACCCCTCGGGAATCCT AGGATTCCGAGGGGTTCCTTTAC 2767 GCCTGATGCTCGTTAAAATTGCGT ACGCAATTTTAACGAGCATCAGGC 2768 TCGCACTTGGACCATGAGATCTGA TCAGATCTCATGGTCCAAGTGCGA 2769 TTCTCAGGCTGGGCAAGAGTCTGA TCAGACCTTGCCCAGCCTGAGAA 2770 CGGACCTGGGGATGCTGGGATTAC GTAATCCCAGCATCCCCAGGTCCG 2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA 2772 TACGTGTGCCCACACACGTCGTA TACGACGTGTGGGACACACGTA 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA 2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTTTAC GTCAAAGCCACAGCATATGCAA 2776 ATTACACCGCTTGGTTTGAC GTCAAAGCCACAGCCATGATGAGA 2777 GCCGTGCAATGCACAGAGTTCAAG CTCAAACCAACCAGCGTTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTCAAACCAACCAGGCGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTCAAACCAACCAGCGCA 35 2778 GAGATCAGACCGTGTCGGATGCT CAGCATCCGACACGGCTCGATCTC 2779 CCACCTATCTTGATCGGATGCT CAGCATCCGACACGGCTCGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGACCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACCGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCCCTCCCAACAGAGCATA TATGCTCGTTGGAACCATTTCACA		2760	AGACGACGGCCAGATACGCTGCCA	TGGCAGCGTATCTGGCCGTCGTCT
2763 CGCATAGCAGTCTCCGCATCTTGG CCAAGATGCGGAGACTGCTATGCG 2764 TGGTTCCGGTGTGCAACAGATAAA TTTATCTGTTGCACACCGGAACCA 2765 CCGTATGCCACCTCCAGAACTCAA TTGAGTTCTGGAGGTGGCATACGG 2766 GTAAAGGAACCCCTCGGGAATCCT AGGATTCCCGAGGGGTTCCTTTAC 2767 GCCTGATGCTCGTTAAAATTGCGT ACGCAATTTTAACGAGCATCAGGC 2768 TCGCACTTGGACCATGAGATCTGA TCAGATCTCAAGGTCCGAAGTCGGA 2769 TTCTCAGGCTGGGCAAGAGTCTGA ACAGACTCTTGCCCAAGCTGCGAA 2770 CGGACCTGGGGAAGAGTCTGT ACAGACTCTTGCCCAGCCTGAGAA 2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA 2772 TACGTGTGCCCACACACGTCGTA TACGACGTGTGGGACACACCTATCGGCTCGA 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAACCGCAATTTCACA 2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACACGAGAATTCACA 2776 ATTACACCGCTTGGTTTGAC GTCAAAGCCACAGCATATGAGA 2777 GCCGTGCAATGCACAGAGTTCAAG CTCAAAGCCACACGCGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTCAAACCAACCAGCGTTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 2778 GAGATCAGACCGTGTCGGATGCT CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACTGGA TCCAGGACCACACGTCATACCA 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCCCAACACGAGCATA TATGCTCGTTGGAACCATTTCACA		2761	AGGAAGCGCTTCTTCCGGTTCTTC	GAAGAACCGGAAGAAGCGCTTCCT
2764 TGGTTCCGGTGTGCAACAGATAAA TTTATCTGTTGCACACCGGAACCA 2765 CCGTATGCCACCTCCAGAACTCAA TTGAGTTCTGGAGGTGGCATACGG 2766 GTAAAGGAACCCCTCGGGAATCCT AGGATTCCCGAGGGGTTCCTTTAC 2767 GCCTGATGCTCGTTAAAATTGCGT ACGCAATTTTAACGAGCATCAGGC 2768 TCGCACTTGGACCATGAGATCTGA TCAGATCTCATGGTCCAAGTGCGA 2769 TTCTCAGGCTGGGCAAGAGTCTGT ACAGACCTCTGCCCAGCCTGAGAA 2770 CGGACCTGGGGATGCTGGGATTAC GTAATCCCAGCATCCCAGGTCCG 2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA 2772 TACGTGTGTCCCACACACGTCGTA TACGACGTGTGGGAACACCCTATCGGCTCGA 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA 2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACGCCATGATAGAA 2776 ATTACACCGCTTGGTTTGAGGTGG CCACTCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGACCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATCTCACGGC GCCGTAGACATAAACCGCGATTTTC 2782 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCCCAAACGAGCATA TATGCTCGTTGGGAAGCGAAACCAACCAACCAACCAACCA		2762	GATGGACGCAAACACAAGGCGATC	GATCGCCTTGTGTTTGCGTCCATC
2765 CCGTATGCCACCTCCAGAACTCAA TTGAGTTCTGGAGGTGGCATACGG 2766 GTAAAGGAACCCCTCGGGAATCCT AGGATTCCCGAGGGGTTCCTTTAC 2767 GCCTGATGCTCGTTAAAATTGCGT ACGCAATTTTAACGAGCATCAGGC 2768 TCGCACTTGGACCATGAGATCTGA TCAGATCTCATGGTCCAAGTGCGA 2769 TTCTCAGGCTGGGCAAGAGTCTGT ACAGACTCTTGCCCAGCCTGAGAA 2770 CGGACCTGGGGATGCTGGGATTAC GTAATCCCAGCATCCCCAGGTCCG 2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA 2772 TACGTGTGTCCCACACACGTCGTA TACGACGTGTGTGGGACACACGTA 30 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA 2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATAGAA 2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCAT TATGCTCGTTGGGAAGCGAAACCAACGAAACCAACGAAACCAACGAAACCAACGAACCAACGAAACCAACGAACCAACGAACCAACGAACCAACGAACCAACGAACCAACGAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAAAA	20	2763	CGCATAGCAGTCTCCGCATCTTGG	CCAAGATGCGGAGACTGCTATGCG
2766 GTAAAGGAACCCCTCGGGAATCCT AGGATTCCCGAGGGGTTCCTTTAC 2767 GCCTGATGCTCGTTAAAATTGCGT ACGCAATTTTAACGAGCATCAGGC 2768 TCGCACTTGGACCATGAGATCTGA TCAGATCTCATGGTCCAAGTGCGA 2769 TTCTCAGGCTGGGCAAGAGTCTGT ACAGACTCTTGCCCAGCCTGAGAA 2770 CGGACCTGGGGATGCTGGGATTAC GTAATCCCAGCATCCCCAGGTCCG 2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA 2772 TACGTGTGTCCCACACACGTCGTA TACGACGTGTGTGGGACACACGTA 30 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA 2774 TTGCAATGCTCCAAAAAAAACTGCC GGCAGTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATGAA 2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTC 2782 GATTCTCCCAAACGAGCATA TATGCTCGTTGGGAAGCGAAGC		2764	TGGTTCCGGTGTGCAACAGATAAA	TTTATCTGTTGCACACCGGAACCA
2767 GCCTGATGCTCGTTAAAATTGCGT ACGCAATTTTAACGAGCATCAGGC  2768 TCGCACTTGGACCATGAGATCTGA TCAGATCTCATGGTCCAAGTGCGA  2769 TTCTCAGGCTGGGCAAGAGTCTGT ACAGACTCTTGCCCAGCCTGAGAA  2770 CGGACCTGGGGATGCTGGGATTAC GTAATCCCAGCATCCCCAGGTCCG  2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA  2772 TACGTGTGTCCCACACACGTCGTA TACGACGTGTGTGGGACACACCGTA  30 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA  2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTGGAGCATTGCAA  2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACACGCATGATGAGA  2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT  2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC  35 2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC  2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAGATAGGTGG  2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG  2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC  2782 GATTCTCCCAACGAGCATA TATGCTCGTTGGAACCGACATTTCACA		2765	CCGTATGCCACCTCCAGAACTCAA	TTGAGTTCTGGAGGTGGCATACGG
2768 TCGCACTTGGACCATGAGATCTGA TCAGATCTCATGGTCCAAGTGCGA 2769 TTCTCAGGCTGGGCAAGAGTCTGT ACAGACTCTTGCCCAGCCTGAGAA 2770 CGGACCTGGGGATGCTGGGATTAC GTAATCCCAGCATCCCCAGGTCCG 2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA 2772 TACGTGTGTCCCACACACGTCGTA TACGACGTGTGTGGGACACACGTA 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA 2774 TTGCAATGCTCCAAAAAAAACTGCC GGCAGTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATGAGA 2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 QAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2766	GTAAAGGAACCCCTCGGGAATCCT	AGGATTCCCGAGGGGTTCCTTTAC
2769 TTCTCAGGCTGGGCAAGAGTCTGT ACAGACTCTTGCCCAGCCTGAGAA 2770 CGGACCTGGGGATGCTGGGATTAC GTAATCCCAGCATCCCCAGGTCCG 2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA 2772 TACGTGTGTCCCACACACCGTCGTA TACGACGTGTGTGGGACACACGTA 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA 2774 TTGCAATGCTCCAAAAAAAACTGCC GGCAGTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATGAGA 2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2767	GCCTGATGCTCGTTAAAATTGCGT	ACGCAATTTTAACGAGCATCAGGC
2770 CGGACCTGGGGATGCTGGGATTAC GTAATCCCAGCATCCCCAGGTCCG 2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA 2772 TACGTGTGTCCCACACACGTCGTA TACGACGTGTGTGGGACACACGTA 30 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA 2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATGAGA 2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA	25	2768	TCGCACTTGGACCATGAGATCTGA	TCAGATCTCATGGTCCAAGTGCGA
2771 TCGAGCCGATAGGGTTGGCATTGC GCAATGCCAACCCTATCGGCTCGA 2772 TACGTGTGTCCCACACACGTCGTA TACGACGTGTGTGGGACACACGTA 30 2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA 2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATGAGA 2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2769	TTCTCAGGCTGGGCAAGAGTCTGT	ACAGACTCTTGCCCAGCCTGAGAA
2772 TACGTGTGTCCCACACGTCGTA TACGACGTGTGTGGGACACACGTA  2773 TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA  2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTTGGAGCATTGCAA  2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATGAGA  2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT  2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC  2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC  2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG  2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG  2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC  2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC  40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2770	CGGACCTGGGGATGCTGGGATTAC	GTAATCCCAGCATCCCCAGGTCCG
TGTGAAATTCGCGTTTCGCATCTT AAGATGCGAAACGCGAATTTCACA  2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTTGGAGCATTGCAA  2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATGAGA  2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT  2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC  35 QAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC  2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG  2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG  2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC  2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC  40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2771	TCGAGCCGATAGGGTTGGCATTGC	GCAATGCCAACCCTATCGGCTCGA
2774 TTGCAATGCTCCAAAAAAACTGCC GGCAGTTTTTTTGGAGCATTGCAA 2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATGAGA 2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2772	TACGTGTGTCCCACACACGTCGTA	TACGACGTGTGTGGGACACACGTA
2775 TCTCATCATGGCTGTGGCTTTGAC GTCAAAGCCACAGCCATGATGAGA 2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA	30	2773		
2776 ATTACACCGCTTGGTTTGGAGTGG CCACTCCAAACCAAGCGGTGTAAT 2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC 35 2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2774	TTGCAATGCTCCAAAAAAACTGCC	GGCAGTTTTTTTGGAGCATTGCAA
2777 GCCGTGCAATGCACAGAGTTCAAG CTTGAACTCTGTGCATTGCACGGC  2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC  2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG  2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG  2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC  2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC  40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2775	TCTCATCATGGCTGTGGCTTTGAC	GTCAAAGCCACAGCCATGATGAGA
2778 GAGATCAGACCGTGTCGGATGCTG CAGCATCCGACACGGTCTGATCTC 2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2776	ATTACACCGCTTGGTTTGGAGTGG	CCACTCCAAACCAAGCGGTGTAAT
2779 CCACCTATCTTGATGCGACCTGGA TCCAGGTCGCATCAAGATAGGTGG 2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2777	GCCGTGCAATGCACAGAGTTCAAG	CTTGAACTCTGTGCATTGCACGGC
2780 CCGATCGCCGTTTATGTCTACGGC GCCGTAGACATAAACGGCGATCGG 2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA	35	2778	GAGATCAGACCGTGTCGGATGCTG	CAGCATCCGACACGGTCTGATCTC
2781 GAAAATCACGGTAAGGCACGTTCG CGAACGTGCCTTACCGTGATTTTC 2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2779	CCACCTATCTTGATGCGACCTGGA	TCCAGGTCGCATCAAGATAGGTGG
2782 GATTCTCGCTTCCCAACGAGCATA TATGCTCGTTGGGAAGCGAGAATC 40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2780	CCGATCGCCGTTTATGTCTACGGC	GCCGTAGACATAAACGGCGATCGG
40 2783 TGTGAAATGTGGCAGTCTCAGGGA TCCCTGAGACTGCCACATTTCACA		2781	GAAAATCACGGTAAGGCACGTTCG	CGAACGTGCCTTACCGTGATTTTC
		2782	GATTCTCGCTTCCCAACGAGCATA	TATGCTCGTTGGGAAGCGAGAATC
2784 CGATCCTGCGTGCCTCATCCAGGC GCCTGGATGAGGCACGCAGGATCG	40	2783	TGTGAAATGTGGCAGTCTCAGGGA	TCCCTGAGACTGCCACATTTCACA
		2784	CGATCCTGCGTGCCTCATCCAGGC	GCCTGGATGAGGCACGCAGGATCG

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	2785	CCCTCAAGTGGGCGAGGGTTTTCA	TGAAAACCCTCGCCCACTTGAGGG
	2786	TCGCCTCCGCCTCGTGTAGAAG	CTTCTACACACGAGGCGAGGCGA
	2787	TTCGCTTTCAGCTCATTGGAACGA	TCGTTCCAATGAGCTGAAAGCGAA
	2788	TGTAATCTGAACAAGCGGACCCCT	AGGGGTCCGCTTGTTCAGATTACA
5	2789	TGGAATCTTTCTTGAGCGCCGTGA	TCACGGCGCTCAAGAAAGATTCCA
	2790	GGCTTTCATCTTTAACCGCTCGGT	ACCGAGCGGTTAAAGATGAAAGCC
	2791	TGATCCGAGCCATTCCTAATCACC	GGTGATTAGGAATGGCTCGGATCA
	2792	TGGTAGGCGTGATGTCCTACGCAA	TTGCGTAGGACATCACGCCTACCA
;	2793	AGGCATCGGTAAGAAGGCCCTATG	CATAGGGCCTTCTTACCGATGCCT
10	2794	CGCCGCGAGACGATCCTTATTATT	AATAATAAGGATCGTCTCGCGGCG
	2795	ACATGGACGAAATTACGCCCGTCA	TGACGGCGTAATTTCGTCCATGT
	2796	ACAGAAAGGTGGGGAGCCTAGCGT	ACGCTAGGCTCCCCACCTTTCTGT
	2797	AGGCTTGCGAACATGGGTAGTGAC	GTCACTACCCATGTTCGCAAGCCT
	2798	GCGTGGGCCTTGCTCCTGTTTAAC	GTTAAACAGGAGCAAGGCCCACGC
15	2799	GAATACAGAGCGTCCGATGTGCCC	GGGCACATCGGACGCTCTGTATTC
	. 2800	GCGACTCTGTAGGGAGCGCGATAT	ATATCGCGCTCCCTACAGAGTCGC
•	2801	GGTGCACTCATATGCGTCGCATCG	CGATGCGACGCATATGAGTGCACC
	2802	CTGTCCCACGGGGAAACCTTACTT	AAGTAAGGTTTCCCCGTGGGACAG
	2803	TGGCTTACTGTCGCAATCTAGGCC	GGCCTAGATTGCGACAGTAAGCCA
20	2804	GCACTCAGTTTCCGGTATCCCATG	CATGGGATACCGGAAACTGAGTGC
	2805	GTGAGGTTCACGTAAGGCACAGCG	CGCTGTGCCTTACGTGAACCTCAC
	2806	GTAACGCCTTTGTCCCCAGCGTAT	ATACGCTGGGGACAAAGGCGTTAC
	2807	GCATTGATATGGTCGGTCTCGCCT	AGGCGAGACCGACCATATCAATGC
	2808	GTGGGTTTAAGTGACAACGGACGC	GCGTCCGTTGTCACTTAAACCCAC
25	2809	CAAAACCCTGCCGAAGATGTTGGT	ACCAACATCTTCGGCAGGGTTTTG
	2810	TCCGAGGAGACTGAACCTGCTACC	GGTAGCAGGTTCAGTCTCCTCGGA
	2811	CGGGGAAGAACGGATTCGCTAAAT	ATTTAGCGAATCCGTTCTTCCCCG
	2812.	TGGTTAGCTTATGTCGGAGCCACC	GGTGGCTCCGACATAAGCTAACCA
	2813	ACGCGTCGATGAACTAAGGCTCGC	GCGAGCCTTAGTTCATCGACGCGT
30	2814	TTCTCCTGACGAGTACGCAGTGGG	CCCACTGCGTACTCGTCAGGAGAA
	2815	TCCGCGGTTGCCGGTTTGTTAGGA	TCCTAACAAACCGGCAACCGCGGA
	2816	TGGCGCATCTTTCAGGGGATGATG	CATCATCCCCTGAAAGATGCGCCA
	2817	TCTTTGGTCCTTGGTGTTTACGCG	CGCGTAAACACCAAGGACCAAAGA
	2818	GAGAACTCCCGCTACAAAGGAGCC	GGCTCCTTTGTAGCGGGAGTTCTC
35	2819	TTAACGTGGGAACCGTTGGTGAAT	ATTCACCAACGGTTCCCACGTTAA
	2820	GGGACACCATCCTTGGGTTTGTTA	TAACAAACCCAAGGATGGTGTCCC
	2821	CAACAAACCGCCTTGGGAAGTGAC	GTCACTTCCCAAGGCGGTTTGTTG
	2822	TTGAAGGCCACCGATACTGATCGC	GCGATCAGTATCGGTGGCCTTCAA
	2823	TCGTAATAGAACTGCGCCCAATGC	GCATTGGGCGCAGTTCTATTACGA
40	2824	GGCACGTTGCCCAAGTTGGATCCA	TGGATCCAACTTGGGCAACGTGCC
	2825	ACATAGCTTGGCCGGACACCCACC	GGTGGGTGTCCGGCCAAGCTATGT
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Ţ	2826	CTTGCCGCCTTGCGAGTGGCTAAA	TTTAGCCACTCGCAAGGCGGCAAG
Ī	2827	AATGGCTCGCCAGATACCGCAGCC	GGCTGCGGTATCTGGCGAGCCATT
Ţ	2828	CAAAAGGCGTGTCCGAACTTTTCA	TGAAAAGTTCGGACACGCCTTTTG
	2829	CGTCCACTTAGGTGGAGATACGCC	GGCGTATCTCCACCTAAGTGGACG
5	2830	GAGCCTCTTCGTCCTGAAGACCGA	TCGGTCTTCAGGACGAAGAGGCTC
Ī	2831	AACATCAAGCGGCAATCTCCCTTC	GAAGGGAGATTGCCGCTTGATGTT
	2832	CGTCCTGACATTATTAGCGCGTGC	GCACGCGCTAATAATGTCAGGACG
	2833	TGTGCAGACCCTAACGACCTACGG	CCGTAGGTCGTTAGGGTCTGCACA
	2834	TTAGGTCGGCCTAGACCCTCCGTA	TACGGAGGGTCTAGGCCGACCTAA
10	2835	TCACATCGCTTAACTGAGCGCATT	AATGCGCTCAGTTAAGCGATGTGA
	2836	AGACCTTCCCACGCGAGATGCTAC	GTAGCATCTCGCGTGGGAAGGTCT
	2837	TTCTTGCCAAAATGTGTCCAACCA	TGGTTGGACACATTTTGGCAAGAA
	2838	CAGTTTCATTGCAGCGAAAGCAA	TTGCTTTCGCTGCAATGAAAACTG
	2839	GTGCCGATCCCGAGACAAGTTCCG	CGGAACTTGTCTCGGGATCGGCAC
15	2840	CATCCGGCCTCAGTGATTCTTACC	GGTAAGAATCACTGAGGCCGGATG
Ì	2841	TGCTGGAAGCCACAAACGTTACGT	ACGTAACGTTTGTGGCTTCCAGCA
	2842	GAACGGCCAGGGGACAACTATCGT	ACGATAGTTGTCCCCTGGCCGTTC
Ì	2843	TCATCTAGGTCGAAGCGCAAGACA	TGTCTTGCGCTTCGACCTAGATGA
	2844	TTTGGTTACCAGCACCCATGTTCC	GGAACATGGGTGCTGGTAACCAAA
20	2845	GACAACAGTCTGTCCGCCACATCC	GGATGTGGCGGACAGACTGTTGTC
	2846	GCCAACAGGAGATGCTTGCACCAT	ATGGTGCAAGCATCTCCTGTTGGC
	2847	CTAAGGACGCATTGACCCCTGAAC	GTTCAGGGGTCAATGCGTCCTTAG
	2848	GGTCGCGTAGTGAGTCAGAGGCGT	ACGCCTCTGACTCACTACGCGACC
	2849	TTACCTCATGAACCCTTCGCGGCG	CGCCGCGAAGGGTTCATGAGGTAA
25	2850	TATACAGCATCGTCGCCGGGCATA	TATGCCCGGCGACGATGCTGTATA
	2851	GCTTAGTGGCGTCTTCGTCGTAGG	CCTACGACGAAGACGCCACTAAGC
	2852	TGCACTCCGCAACCTTGTGAAATC	GATTTCACAAGGTTGCGGAGTGCA
	2853	AACCCGTCATGCCGACTCCATCTA	TAGATGGAGTCGGCATGACGGGTT
	2854	AGCACTAGTGGCGTGCGACTTTGC	GCAAAGTCGCACGCCACTAGTGCT
30	2855	TAAAAAGTGCCGCTAACCACGGAG	CTCCGTGGTTAGCGGCACTTTTTA
	2856	CGCGGAATATTTGTCGTCCGATTC	GAATCGGACGACAAATATTCCGCG
	2857	TTCTGCTATGCGTATGGGGGCCCG	CGGGCCCCCATACGCATAGCAGAA
	2858	CGAACTACTGCGTCAGCCTCTCCC	GGGAGAGGCTGACGCAGTAGTTCG
	2859	AGATGACGAATTAGCGGGGTTGGG	CCCAACCCCGCTAATTCGTCATCT
35	2860	AATAACAGTGGCAATGAGCGGGAA	TTCCCGCTCATTGCCACTGTTATT
	2861	ATATGTTGATTCCCGTGCTGCACA	TGTGCAGCACGGGAATCAACATAT
	2862	AGAGTGGGCACCACCAGGCAGACA	TGTCTGCCTGGTGGTGCCCACTCT
	2863	AGGCCTGGGTTTCTGCGTCTTAGT	ACTAAGACGCAGAAACCCAGGCCT
	2864	CGGACGTGACAAACGGACATACCC	GGGTATGTCCGTTTGTCACGTCCG
40	2865	CAAGTGTTTCGGCCCAACTCTCGA	TCGAGAGTTGGGCCGAAACACTTG
	2866	GAACCCTTATCGGGATAGGCCCAA	TTGGGCCTATCCCGATAAGGGTTC
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	2867	CAGGACGATACCAAGCAGAACGCC	GGCGTTCTGCTTGGTATCGTCCTG
	2868	GCGTCTTGTGATTCTGCCCTAACC	GGTTAGGGCAGAATCACAAGACGC
	2869	AAACAACCATCAATGTCGGGTCCA	TGGACCCGACATTGATGGTTGTTT
	2870	TGTAAAGACCAGTTGGCGGCTCTC	GAGAGCCGCCAACTGGTCTTTACA
5	2871	GCGTTTTGACTCGGTGGTCAGTCC	GGACTGACCACCGAGTCAAAACGC
	2872	TGTATGGAGGCACGGCAAAGTCTT	AAGACTTTGCCGTGCCTCCATACA
	2873	TTACCTAGGTTCCCGCTGACACGC	GCGTGTCAGCGGGAACCTAGGTAA
	2874	CGGCTCGTGGGAATCCTCTGAAGA	TCTTCAGAGGATTCCCACGAGCCG
	2875	CCGGCTCGGGCATTTCTTGGACCT	AGGTCCAAGAAATGCCCGAGCCGG
10	2876	CAACGATGGAATTGTCTCCTTGGG	CCCAAGGAGACAATTCCATCGTTG
	2877	CGGGCTATTATCGGGATTATGGGG	CCCCATAATCCCGATAATAGCCCG
	2878	ACGTACCTGAAGATGCAACGGCGG	CCGCCGTTGCATCTTCAGGTACGT
	2879	CATGGTGCAGCACGCACAAGTAAC	GTTACTTGTGCGTGCTGCACCATG
	2880	CGTCGATATGTCGGGCTATTGCCT	AGGCAATAGCCCGACATATCGACG
15	2881	AAATGCAGGGTTAAGAGGAGGCCC	GGGCCTCCTCTTAACCCTGCATTT
	2882	TGCAAGGACTGATTCTCCCGCTGT	ACAGCGGGAGAATCAGTCCTTGCA
	2883	GTTTTCGGAACGCCGCAGAGTTCA	TGAACTCTGCGGCGTTCCGAAAAC
:	2884	CCCTCGATGGTTCATTGGGAAGAC	GTCTTCCCAATGAACCATCGAGGG
	2885	CCTGTTCGCTCATAATGGTGGGGT	ACCCCACCATTATGAGCGAACAGG
20	2886	GAAAGAACGATCGCGGAATAGCTG	CAGCTATTCCGCGATCGTTCTTTC
	2887	TCCACCTGTGTGCCTTTATCCTCA	TGAGGATAAAGGCACACAGGTGGA
	2888	TCCTCCGTGAACCGCTGTAGCGCA	TGCGCTACAGCGGTTCACGGAGGA
	2889	TTGAGATTTTTACGGTTTCCCCGC	GCGGGAAACCGTAAAAATCTCAA
	2890	CGATAGGACGTGGGCATGTCCCAG	CTGGGACATGCCCACGTCCTATCG
25	2891	CCCGAACTTTGAGATCCGAGAACA	TGTTCTCGGATCTCAAAGTTCGGG
	2892	TCACGCAGCTAGAGTCGCGTTACC	GGTAACGCGACTCTAGCTGCGTGA
	2893	AGATAACGCCCACTGACGACATGC	GCATGTCGTCAGTGGGCGTTATCT
	2894	ACGCTTAGAGCTCCGATGCCGAAT	ATTCGGCATCGGAGCTCTAAGCGT
	2895	GGGCGATAACTTAAATTGTGCCGC	GCGGCACAATTTAAGTTATCGCCC
30	2896	AGGACGTTCATGCGTCTCTTTGCA	TGCAAAGAGACGCATGAACGTCCT
	2897	CGGCTGGTAGAACTGTGCATCGTA	TACGATGCACAGTTCTACCAGCCG
	2898	TTCGAAATGTACTTCCCACGCGGA	TCCGCGTGGGAAGTACATTTCGAA
	2899	GCAGGTTGGCTGTCTTGTGGAGTC	GACTCCACAAGACAGCCAACCTGC
	2900	CGTTTGGTTGCTTCAAGAACCGGT	ACCGGTTCTTGAAGCAACCAAACG
35	2901	CATACTTGGTTGTTGTGCCCACGC	GCGTGGGCACAACAACCAAGTATG
	2902	GGGGTCGGCTGAAGTGTTTTATCC	GGATAAAACACTTCAGCCGACCCC
	2903	GTGACGGTTGATTAACGACCGTGG	CCACGGTCGTTAATCAACCGTCAC
	2904	CTTATGGCAGCGCCAGGGGCACTC	GAGTGCCCTGGCGCTGCCATAAG
	2905	GTTAGGGGACCCACCTCGTTTGAT	ATCAAACGAGGTGGGTCCCCTAAC
40	2906	CAATATAAATGCCGCGCATCGAGT	ACTCGATGCGCGGCATTTATATTG
	2907	TTCTTCATCAGCAGTCCCCGAGAA	TTCTCGGGGACTGCTGATGAAGAA

2908 AGTTGGCTCCATGATGGCATITT AMATIGCCATCAAGGGACGCAACT 2909 CCGACTTTCGTCCACGATTCCTCT AGAGGAATCGTGGACAGAAGTCGG 2910 ACTTGGCCGGACGCACGCACGATCGATCGTCT 2911 CACCGCGGTAGATGTATCCCTTCC GGAAGGGATACATCTACCGCGGTG 2912 GTTAGCTTTAGCTCGGCACGCTG CAGGCGTGCCGAAGCTAAAGCTAAC 2913 GCGCATAAGAAGGTCCGCTAAAGC GCTTTAGCGGACCTTCTTATGCGC 2914 ACATCATCACGCCTGGCGTGACCA TGGTCACGCCAGGCGTGATGATGT 2915 CCGGCGAAGTTTGGTGTGATTAGA TCTAATCACGCAAACTTGGCGG 2916 TGCACCGCCAGATTGTGCTGAGTC GACCACAACTTGGCGGG 2917 ACATGTGAAGTGACTGCCTCAAA TCGACCACAACTTGGCGGTCAA 2918 CCTCTGGAGGGGATTAGCCACGCT AGCGCACACACTTCGCCGG 2919 CAATAGCCATGTCCACACGCT AGCGTGCAATCCCCTCCAGAGG 2919 CAATAGCCATGTCCACACGCT AGCGTGCAATCCCCTCCAGAGG 2919 CAATAGCCATGTCCACACGCT AGCGTGCAATCCCCTCCAGAGG 2910 ACCCATGGTTCCAACGTTCTTTCG CGAAAGAACGTTGGACATGGCTATTG 2920 ACCCATGGTTCCAACGTTCTTTCG CGAAAGAACGTTGGAACTAGCTATTG 2921 AATCTGGTCTTGGCATGCACACGC CCGTTGCCAAGACCAGATTTG 2922 GTATACCGGTGCATCCAAA TTTGCTTCAGCATGCACCAGGGT 2924 CGGGTATTCGACACACACGACGAC TTCCACAA TTTGCTTCAGCATGCACCAGACCACATTAC 2925 AGTGCAACAAGAGCGCTTGCAAA TTTGCTTCAGCATGCACCAGAACCACAT 2924 CGGGTATTCGACACACACACAGGGC CGTGACCAAACCATTACCCC 2925 AGTGCAACAAGAGCGCTTGGTCACC CGGGTCCAACCAGAACCACT 2926 TGCACCAACACACACACAGGGC CGTGACCAAACAATATACCCG 2927 TGCACCATACTTTTGGTGCCGGTG CACCGGCCCAAACTATAGGTGCA 2928 AGTCCACACCTCGAACGACACGGC CGTGACCAAACTATAGGTGCA 2929 CGCCGACCTGGTCAACGACACGGC CGCCCAAACTATAGGTGCA 2929 CGCCGACCTGGTCAAAGAGCCCTA TAGCGCTCTGGAGCACACACACACACACACACACACACAC				
2910   ACTTGGCGGACGACAGCAAGAC   GTCTTTGCTGTGCGCCCAAGT		2908	AGTTGCGTCCCTTGATGGCATTTT	AAAATGCCATCAAGGGACGCAACT
2911		2909	CCGACTTTCGTCCACGATTCCTCT	AGAGGAATCGTGGACGAAAGTCGG
5         2912         GTTAGCTTTAGCTCGGCACGCCTG         CAGGCGTGCCGAAAAGCTAAAGC           2914         GCGCATAAAGAAGGTCCGCTAAAAGC         GCTTTAGCGGCACTTCTTATGCGC           2914         ACATCATCACGCCTGGCGTGACCA         TGGTCACGCCAGCCGTGATGATGT           2915         CCCGGCAGATTTGTGTTGATTAGA         TCTAATCACACCAAACTTCGCCGG           2916         TGCACCGCCAGATTGTGTTTGAGT         CATACACCAAACTTCGCCGG           2917         ACATGTGAAGTGAGTGCCGTCCAA         TTGGACGCACATCTCACTTCACAGG           2918         CCTCTGGAGGGGATTAGCCACGCT         AGCGTGGCACATCTCCACAGG           2919         CAATAGCCATGTCACTGGCAACG         CCGTTGCAAGCATCTCCATGGAC           2920         ACCCATGGTTCCACACGTTCTTTCG         CGAAAGAACGTGGAACCTTGGAACCATGGTG           2921         AATCTGGTCTTGGCATCCTCCAAA         TTTGGAGCATGCACACACACGA           2922         GTATACCGGTGCATCGTCAAACAA         TTTGGACATGACACCACACAGAGA           2923         AGTGTCAACAGAGCACACACAGAGA         GTCTCTGTGTGTCGAATCCACGACACACACACACACACAC		2910	ACTTGGCCGGACGACAGCAAAGAC	GTCTTTGCTGTCGTCCGGCCAAGT
2912   GCGCATAAGAAGGTCCGCTAAAGC   GCTTTAGCGACCTTCTTATGCGC   2914   ACATCATCACGCCTGGCGTGACCA   TGGTCACGCCAGGCGTGATGATGT   2915   CCGGCGAAGTTTGGTGTGATTAGA   TCTAATCACACCAAACTTCGCCGG   2916   TGCACCGCCAGATTTGGTGTGATTAGA   TCTAATCACACCAAACTTCGCCGG   2916   TGCACCGCCAGATTTGGTGTGAGTC   GACTCAGCACAACTTGACGTGGTGCA   2917   ACATGTGAAGTGAGTGCCGTCCAA   TTGGACGGCACTCACTTCACATGT   2918   CCTCTGGAGGGGATTAGCCACGGT   AGCGTGGCTAATCCCCTCCAGAGG   2919   CAATAGCCATGTCACATGGT   AGCGTGGCTAATCCCCTCCAGAGG   2920   ACCCATGGTTCACATGTTTCG   CGAAAAGAACGTTGGAACCATGGGT   2921   AATCTGGTCTTGGACTCCCAAA   TTTGGAGGATGCCAAGACCATGGGT   2921   AATCTGGTCTTGGAGCACCCCG   CGGGTCGACTGGACCAGGATTAC   2922   AGTGTTCCGGTGCATCCTCCAAA   TTTGCTTCAGCATGCACCAGATTAC   2923   AGTGTTCTGGACACACACACAGAGAC   GTCCTCGTGTGTGGAACCAGAACACT   2924   CGGGTATTCGACACACACACAGAGAC   GTCCTCGTGTGTGCAAACCAGAACACT   2925   AGTGCAACAGAGGCGCTTGGTCACC   CGTGACCAAGCGCTCGTTGTCCACC   2926   TGCACCAACAGAGACCCTTGAC   CCCGGACCAAACAACATATAGGTGCA   2927   TGCTCACGTACCAGACACACGAGACC   CGCGCACCAAACATATAGGTGCA   2928   AGTCCACACCTCGAACCAGACACCTCGAC   CCCGGCACCAAACATATAGGTGCA   2929   CGCCGACCTGGTCAAAGAGCGCTA   TAGCGCTCTTTGACCAGGCAC   2929   CGCCGACCTGGTCGTTTCCAG   CTCGAGTGTCAGGCACACACACACACACACACACACACAC	ĺ	2911	CACCGCGGTAGATGTATCCCTTCC	GGAAGGGATACATCTACCGCGGTG
2914 ACATCATCACGCCTGGCGTGACCA 2915 CCGGCGAAGTTTGGTTGATTAGA 2916 TGCACCGCCAGATTGTGCTGAGTC 2917 ACATGTGAAGTGAGTGCAAACTTCGCCGG 2917 ACATGTGAAGTGAGTGCCGTCCAA 2918 CCTCTGGAGGGGATTAGCACCACATCTTGGCGGTGCA 2919 CAATAGCCATGTCACTGGCACGCT 2919 CAATAGCCATGTCACTGGCAACGC 2919 CAATAGCCATGTCACTGGCAACGG 2919 CAATAGCCATGTCACTGGCAACGG 2920 ACCCATGGTTCACTGGCAACGG 2921 AATCTGGTTTGGCATCCTCCAAA 2921 AATCTGGTTTTGGCATCCAAA 2922 GTATACCGGTGCATCTCCCAAA 2923 AGTGTTCTGGCATCCTCCAAA 2923 AGTGTTCTGGTTGGAGTCACCAA 2924 CGGGTATTCGACTGGAACCAA 2925 AGTGCAACACACACGAGGAC 2925 AGTGCAACACACACACGAGGAC 2926 TGCACCTATAGTTTGGTCCCGGT 2927 TGCTCACGTACCACACACACGACGAC 2928 AGTCCCACCACACACACACACACACACACACACACACACA	5	2912	GTTAGCTTTAGCTCGGCACGCCTG	CAGGCGTGCCGAGCTAAAGCTAAC
2915 CCGGCGAAGTTTGGTGATTAGA 2916 TGCACCGCCAGATTGTGCTGAGTC 2917 ACATGTGAAGTGCGTGCAA 2918 CCTCTGGAGGGGATTAGCACACGCT 2919 CATAGCCATGCACGGATTGCCAGCACACTCTGCCGAGGG 2919 CATAGCCATGTCACTGGCAACGG 2919 CATAGCCATGTCACTGGCAACGG 2919 CATAGCCATGTCACTGGCAACGG 2919 CATAGCCATGTCACTGGCAACGG 2910 ACCCATGGTTCCACGGCAACGG 2921 AATCTGGTCTTGGCATCCTCCAAA 1TTGGAGGATGCCATGGAACCATGGTTTTTCG 2922 GTATACCGGTGCATGCTGAAGCAA 1TTGCTTCAGCATGCACGACCACGTTCACAGGACCAGATT 2924 CGGGTATTCGACACACACACGACACGACCAGACCAGATT 2925 AGTGCAACACACACACAGAGCAC 2926 TGCACCATAGTTTGGTTCGAAGCAC 2927 AGTGCAACACACACACAGAGCAC 2928 AGTCACCATAGTTTGGTTCCAGTC 2928 AGTCCACACACACACACACGACC 2929 CGCCGACCATACTATGGTGCAC 2929 CGCCGACCTAGACCACACACGACC 2929 CGCCGACCTGGTCACACCACACACGACCACACCACACCA		2913	GCGCATAAGAAGGTCCGCTAAAGC	GCTTTAGCGGACCTTCTTATGCGC
2916 TGCACCGCCAGATTGTGCTGAGTC GACTCAGCACAATCTGGCGGTGCA 2917 ACATGTGAAGTGAGTGCCGTCCAA TTGGACGGCACTCACTTCACATGT 2918 CCTCTGGAGGGGATTAGCCACGCT AGCGTGGCTATTCCCCTCCAGAGG 2919 CAATAGCCATGTCAACTGGCAACGG CCGTTGCCAGTGACATGGCTATTG 2920 ACCCATGGTTCCAACGTTCTTCG CGAAAGAACGTTGGAACCATGGGT 2921 AATCTGGTTCCAACGTTCTTCG CGAAAGAACGTTGGAACCATGGGT 3922 GTATACCGGTGCATGCTGCAAA TTTGGAGGATGCCAAGACCAGATT 15 2922 GTATACCGGTGCATGCTGCAAA TTTGGAGCACCAGACCAG		2914	ACATCATCACGCCTGGCGTGACCA	TGGTCACGCCAGGCGTGATGATGT
10 2917 ACATGTGAAGTGCGTCCAA TTGGACGGCACTCACTTCACATGT 2918 CCTCTGGAGGGGATTAGCCACGCT AGCGTGCTAATCCCCTCCAGAGG 2919 CAATAGCCATGTCACTGGCAACGG CCGTTGCCAGTGACCATGGCTATTG 2920 ACCCATGGTTCCAACGTTCTTTCG CGAAAGAACGTTGGAACCATGGGT 2921 AATCTGGTCTTGGCATCCTCCAAA TTTGGAGGATGCCAAGACCAGATT 15 2922 GTATACCGGTGCATCCTCCAAA TTTGGAGGATGCCAAGACCAGATT 2924 CGGGTATTCGACCACGA TTGCACCACGACCAGATT 2924 CGGGTATCGAACCACACACGAGGAC GTCCTCGTGTGTGTGCAACCACACACCAGACCACACCAGACCACACCACGAGGAC CGGGTCGACTCGAACCACCACCACGAGGAC 2925 AGTGCAACAGAACCACCAAGGAC GTCCTCGTGTGTGTGCACT 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACCACCACGAGGAC CGCCGCACCAAACTATAGGTGCA 2928 AGTCCACCACCTCGAACGACACGACGCG CGCCTGTTCGAGCAC 2929 CGCCCACCTTGGACCAGGACCCGC CGCCTGTTCGAGCACCACCACCACCACCACCACCACCACCACCACCAC		2915	CCGGCGAAGTTTGGTGTGATTAGA	TCTAATCACACCAAACTTCGCCGG
2918 CCTCTGGAGGGGATTAGCCACGCT AGCGTGCTAATCCCCTCCAGAGG 2919 CAATAGCCATGTCACTGGCAACGG CCGTTGCCAGTGACATGGCTATTG 2920 ACCCATGGTTCCAACGTTCTTTCG CGAAAGAACGTTGGAACCATGGGT 2921 AATCTGGTCTTGGCATCCTCCAAA TTTGGAGGATGCCAAGACCAGATT 2921 GTATACCGGTGCATGCTGAAGCAA TTGTGAGCACCAGATT 2922 GTATACCGGTGCATGCTGAAGCAA TTGCTTCAGCATGCACCAGATT 2923 AGTGTTCTGGTTCGAGTGAGCCAC TTGCTTCAGCATGCACCAGATAC 2924 CGGGTATTCGACACCACACGAGGAC 2925 AGTGCAACAGAACACCACGAGGAC GTCCTCTGTGTGTGCAATCACCG 2926 TGCACCTATAGTTTGGTCCAGG CGTGACCAAGCCCTTGTTGCACT 2927 TGCTCACGTACCAGGACCACCAGAGGAC 2928 AGTCCACCCTCGAACGACACGACGGC CGCCTGTGTGCACT 2929 CGCCGACCTGGTCAAAGAGCCGT CACCGGCACCAAACTATAGGTGCA 2929 CGCCGACCTGGTCAAAGAGCCGT TAGCGTCTTGAGCACACACACACACGAGCC 2930 GCCTAAGGGCCTTGCGTTTCCGA TCGGAGTGTCTGAGCACACACACACACACACACACACACA		2916	TGCACCGCCAGATTGTGCTGAGTC	GACTCAGCACAATCTGGCGGTGCA
2919 CAATAGCCATGTCACTGGCAACGG CCGTTGCCAGTGACATGGCTATTG 2920 ACCCATGGTTCCAACGTTCTTTCG CGAAAGAACGTTGGAACCATGGGT 2921 AATCTGGTCTTGGCATCCTCCAAA TTTGGAGGATGCCAAGACCAGATT 15 2922 GTATACCGGTGCATGCTGAAGCAA TTGCTTCAGCATGCACCGGATACC 2924 CGGGTATTCGACTCGACCACG CGGGTCGAACCAGACACT 2924 CGGGTATTCGACACACACACGAGGAC GTCCTCGTGTGTGCAGATACCCC 2925 AGTGCAACACACACACACGAGGAC GTCCTCGTGTGTGCAATACCCC 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAACCACACACACTTGCACC 2928 AGTCCACACCTCGAACGACGACGACCACACACACACACAC	10	2917	ACATGTGAAGTGAGTGCCGTCCAA	TTGGACGGCACTCACTTCACATGT
2920   ACCCATGGTTCCAACGTTCTTCG   CGAAAGAACGTTGGAACCATGGGT		2918	CCTCTGGAGGGGATTAGCCACGCT	AGCGTGGCTAATCCCCTCCAGAGG
2921 AATCTGGTCTTGGCATCCTCCAAA TTTGGAGGATGCCAAGACCAGATT 2922 GTATACCGGTGCATGCTGAAGCAA TTGCTTCAGCATGCACCGGTATAC 2923 AGTGTTCTGGTTCGAGTCGACCCG CGGGTCGACTCGAACCAGAACACT 2924 CGGGTATTCGACACACACGAGGAC GTCCTCGTGTGTCGAATACCCG 2925 AGTGCAACAGAGCGCTTGGTCACG CGTGACCAAGCGCTCTGTTGCACT 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAAG CTCGAGTGTCCTGGTACGTAGCAC 2928 AGTCCACACCTCGAACGACACGAGG CGCCTGTTTGACCT 2929 CGCCGACCTGGTCAAGAGCGCT TAGCGCTCTTTTGACCAGGTCGTGGACT 2929 CGCCGACCTGGTCAAAGACCGCTA TAGCGCTCTTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTCGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAAGACCACAGGCCCTTAGGC 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACGGTTG 2933 CGAGAATCAAGGCGTACCAATCAG CCATTCCCTGGAGGTGTCCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGTGTCCTCG 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2937 TAAATAGGCGAAACCGTTCGTGG GCCACGAACGGTTTCGCCTAGCTTG 2938 TCAAGACCCGCAATGTTCTGTGGC GCCACGAACGGTTTCGCCTAGTTTA 2938 TCAAGACCCGCAATGTTCTGTGGC GCCACGAACGGTTTCGCCTAGTTTGA 2939 GCGCTGGTAAACCTGTGTGGC GCCACGAACGGTTTCGCCTAGTTTGA 2939 GCGCTGGTAAACCTGAACCAA TTGTGCAAACACATTCCCCGC 2940 CAGCCGTAAACCTGAACCAACGG CCGTTTGGTTCACGGTTTGATTCCCCTGCCGC 2941 GCCGATCTGTGCTGAACCAACGG CCGTTTGGTTCACGACCAGCCGC 2942 GATATCGCGTCGCAATATCACGCG CGCTGATATTGCGACGAGATTC 2943 CCCTGCACGAATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGA 2944 TGACATACAGATTTGTTGTGCCC GGGGCCACACAAATCTGTAACCGG 2944 TGACATACAGATTTGTGTGGCCC GGGGCCACACAAATCTGTATCCA 2945 GTTTGCGCCCGGTATTCACGGT CGAGCCCACACAATCTGTATTCACACGC 2946 TTTTACCTGGCCATTTGTTGCCCCACCCTGATTGAGCCACGCCGCAAAC 2946 TTTTACCTGGCCATTTGTTGAGCTC GAGCTCACCAATTGCGCCACACAAACCGGCCACAACACACAC		2919	CAATAGCCATGTCACTGGCAACGG	CCGTTGCCAGTGACATGGCTATTG
15 2922 GTATACCGGTGCATGCTGAAGCAA TTGCTTCAGCATGCACCGGTATAC 2923 AGTGTTCTGGTTCGAGTCGACCCG CGGGTCGACTCGAACCAGAACACT 2924 CGGGTATTCGACACACACGAGGAC GTCCTCGTGTGTCGAATACCCG 2925 AGTGCAACAGAGCGCTTGGTCACG CGTGACCAAGCGCTCTGTTGCACT 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACGTGAGCA 2928 AGTCCACACCTCGAACGACAGGCG CGCCTGTCGTTCGAGGCA 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTTTTCCGA TCGGAAAAACAGACAGGCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCAGACACAAGCACTAGGC 2932 CAACCGTTGGCCGTACAAAAAATC GAGACCGGAACATAAGCACGGCACA 2933 CGAGAATCAAGGCGTACAATCCG CGAGATGGTACGGCCTTAGGC 2934 GCGTAGGCCGTACAACAAAAATC CAGACCGGAACATAAGCACGCACA 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCCAACACATCCACC 2936 CAAGCTAGGGACAGAATGCCCAC GTGGGCAATTCTGTCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGGC 2938 TCAAGACCGGCAACGATTGCCCAC GTGGGCAATTCTGCCTAGCTTTGA 2938 TCAAGACCCGCAACCGTTCGTGGC GCCACGAACGGTTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACACTTCGACCTTTGA 2939 GCGGCTGTAGACTCTTTGCACAA TTGTGCAAAACACCCTTC 2940 CAGCGTAAACCTGAACCAAACCG CCGTTTGGTTCAGGTTTACCCTG 2941 GCCGATCTGTGCCAACACCAAC TTGTGCCAAAGAGTTTACCCTGC 2942 GATATCGCGCAACCGAATGTTCATCA TGATGAACCACATTGCCCTACGCCCC 2943 CCCGCGCAAACCGTTCATGCC GCGCGGAAACCTTACCACCCGC 2944 GCCGATCTGTGCGCAACCAAACCGG CCGTTTTGGTTCAGCACCACACACGGCCGC 2944 TGACATACAGATTTAGCCCCC GGGGCCACACAAATCTGTACCAGCCGC 2945 GTTTGCGGCCGAATTTCTGTGCCCC GGGGCCACACAAATCTGTTCACAGCCCGC 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATCACCAGCCGC 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAAACCCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGAGAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCCACCCTGATTGAGTAAAAA		2920	ACCCATGGTTCCAACGTTCTTTCG	CGAAAGAACGTTGGAACCATGGGT
2923 AGTGTTCTGGTTCGACTCGC CGGGTCGACTCGAACCAGAACACT 2924 CGGGTATTCGACACACACGAGGAC GTCCTCGTGTGTCGAATACCCG 2925 AGTGCAACAGAGCGCTTGGTCACC CGTGACCAAGCGCTCTGTTGCACT 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACGTAGGCA 2928 AGTCCACACCTCGAACGACAGCGC CGCCTGTCGTTCGAGGTAGGCA 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGTCTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTCGTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCAGACACACGCACA 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACCGCCAACGACAC 2933 CGAGAATCAAGGCGGTACAAAAAATC GATTTTTGTTACCGCCAACGGTTG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTTTTTCCGCAAGACCAAT ATTGGTCTTGGCGAAAACACACCATC 2936 CAAGCTAGGGAACACAATAGCCCACAT ATTGGTCTTGGCGAAAACACACCATC 2937 TAAATAGGCGAAACCGTTCGTGC GCCACGAACGGTTTCGCCTAGCTTG 2938 TCAAGACCCGCAATGTTCATGT ACATGAACACACTTCGCTTGATTCACACACCGCCGCCACACGGTTTGACAACACACATCTCAGCCGCCTTCAGCCCACACGGTTTCGCCTAGTTCCCTAGCTTTGACAACACACTTCCCTGGAGGCTCCTAGCCCGCCC		2921	AATCTGGTCTTGGCATCCTCCAAA	TTTGGAGGATGCCAAGACCAGATT
2924 CGGGTATTCGACACACAGAGGAC GTCCTCGTGTGTCGAATACCCG 2925 AGTGCAACAGAGCGCTTGGTCACG CGTGACCAAGCGCTCTGTTGCACT 2926 TGCACCATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACGTAGCA 2928 AGTCCACACCTCGAACGACAGCGC CGCCTGTCGTTCGAGGTGGACCA 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTCGTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCAGGCCCTTAGGC 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACACGGCCACA 2933 CGAGAATCAAGGCGTACCAATCTCG CGAGACCGGAACATAAGCACGCACA 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAAAACACACCATC 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTAGCTTG 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTTCGCCTAGCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAACACACTTCGCC 2940 CAGGCGTAAACCTGACCAAACGG CCGTTTGGTTCAGCCTGC 2941 GCCGATCTGTGCTGAACCAAACGG CCGTTTGGTTCAGCCTGC 2941 GCCGATCTGTGCTGAACCAAACGG CCGTTTGGTTCAGCCTGC 2941 GCCGATCTGTGCTGAACCAAACGG CCGTTTGGTTCAGCCCGC 2942 GATATCGCGTCGAAGACCATCA TACAGGTGGTTAACGCCGC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGTTAACGCCGCCGC 2944 TGACATACAGATTTGTGTGCCCC GGGGCCACACAAATCTGTAGTCA 2945 GTTTGCGCCGGCAATTCACGAGCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGAGTT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTTGGTGAGCCC GAGCTCCCCTGATTGAGGACAACACCTGAGCAAACACCTGAGCAAACACACCATTGCAGCCAACCAA	15	2922	GTATACCGGTGCATGCTGAAGCAA	TTGCTTCAGCATGCACCGGTATAC
2925 AGTGCAACAGAGCGCTTGGTCACG 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACGTAGCA 2928 AGTCCACACCTCGAACGACAGGCG CGCCTGTCGTTCGAGGTGGACCA 2929 CGCCGACCTGGTCAAAGAGCGCTA 2929 CGCCGACCTGGTCAAAGAGCGCTA 2920 TGTGCACAGCTCGTTTTCCGA 2930 GCCTAAGGGCCTGTTTTCCGA 2931 TGTGCGTGCTTATGTTCCGGTCCTC 2932 CAACCGTTGGCCGTAACAAAAAATC 2933 CGAGAATCAAGGCGTACCATCTCG 2934 GCGTAGGCAGCCTCCAGGGAAAACGACAGGCCCTTAGGC 2935 GATGGTGTTTTCGCAAGACCAAT 2936 CAAGCTAGGGAAACACAAT 2936 CAAGCTAGGGAAACCAAT 2937 TAAATAGGCGAAACCCATC 2938 TCAAGACCCGCAAACCCATC 2939 GCGCGCGAACCGTTCGTGGC 2939 GCGCTGGTAGCAACACAAT 2939 GCGCCAACCGTTCGTGGC 2940 CAGCCTGAGACCCTTCTGCC 2940 CAGCCGCAATGTGTTCATGT 2941 GCCGATCTTTGCACAA 2941 GCCGATCTTTGCACAAA 2941 GCCGATCTTGTGCCTAAGACCAACCGCCCCCCCCCCCCC		2923	AGTGTTCTGGTTCGAGTCGACCCG	CGGGTCGACTCGAACCAGAACACT
2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACGTGAGCA 2928 AGTCCACACCTCGAACGACAGCGC CGCCTGTCGTTCGAGGTGTGAGCA 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGCGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCACACACACACACACACACACACACACACACAC	ı	2924	CGGGTATTCGACACACACGAGGAC	GTCCTCGTGTGTGTCGAATACCCG
2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACGTGAGCA 2928 AGTCCACACCTCGAACGACAGGCG CGCCTGTCGTTCGAGGTGTGGACT 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGCGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCACGACCACACACACCCGCACCACACACCGCTTAGGCCGTAACAAAAATC GATTTTCTACGGCCAACAGGTCGCCACACACACACACACA		2925	AGTGCAACAGAGCGCTTGGTCACG	CGTGACCAAGCGCTCTGTTGCACT
2928 AGTCCACACCTCGAACGACAGGCG CGCCTGTCGTTCGAGGTGTGGACT 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTCGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGATCAAAAACGACAGGCCCTTAGGC 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACAGGTGTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGACGGACAACAACGGTTG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTAGTTG 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCACGTTGA 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCTGTTAATCGCCTGG 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGGCGG 2944 TGACATACAGATTTGTGTGGCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGAACACAAATCTGTATGTCA 2946 TTTTACCTGGCCGTTTGTACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTTGTGAGCTC GAGCTCACCAAATCCGGCCGCAAAC 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAAAA		2926	TGCACCTATAGTTTGGTGCCGGTG	CACCGGCACCAAACTATAGGTGCA
2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTCGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGAACATAAGCACGCACA 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACAGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTAGTTG 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGTTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGCTTCATCA TGATGAACCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGTTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCACATTGAGCACAGTAAAA 40 2947 CTCTACTCAATCAGGGTGGAGCG CGCTCCCACCCTGATTGAGTAAAA	20	2927	TGCTCACGTACCAGGACACTCGAG	CTCGAGTGTCCTGGTACGTGAGCA
2930 GCCTAAGGGCCTGTCGTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGAACATAAGCACGCACA 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACAGGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTAGTTG 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACACTCAGCACAGATCGGC 35 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAAGA		2928	AGTCCACACCTCGAACGACAGGCG	CGCCTGTCGTTCGAGGTGTGGACT
2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGAACATAAGCACGCACA 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACGGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAAAACACCATC 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTAGTTG 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAAGA		2929	CGCCGACCTGGTCAAAGAGCGCTA	TAGCGCTCTTTGACCAGGTCGGCG
2932 CAACCGTTGGCCGTAACAAAAATC GATTTTGTTACGGCCAACGGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAAGAG		2930	GCCTAAGGGCCTGTCGTTTTCCGA	TCGGAAAACGACAGGCCCTTAGGC
2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2931	TGTGCGTGCTTATGTTCCGGTCTC	GAGACCGGAACATAAGCACGCACA
2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG	25	2932	CAACCGTTGGCCGTAACAAAAATC	GATTTTGTTACGGCCAACGGTTG
2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2933	CGAGAATCAAGGCGTACCATCTCG	<u> </u>
2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2934	GCGTAGGCAGCCTCCAGGGAATGG	CCATTCCCTGGAGGCTGCCTACGC
2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2935	GATGGTGTTTTCGCCAAGACCAAT	ATTGGTCTTGGCGAAAACACCATC
2938 TCAAGACCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2936	CAAGCTAGGGACAGAATTGCCCAC	GTGGGCAATTCTGTCCCTAGCTTG
2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG	30	2937	TAAATAGGCGAAACCGTTCGTGGC	
2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 35 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2938	TCAAGACCCGCAATGTGTTCATGT	ACATGAACACATTGCGGGTCTTGA
2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2939	GCGGCTGGTAGACTCTTTGCACAA	
2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2940	CAGGCGTAAACCTGAACCAAACGG	CCGTTTGGTTCAGGTTTACGCCTG
2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2941	GCCGATCTGTGCTGAGGTTCATCA	TGATGAACCTCAGCACAGATCGGC
2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG	35	2942	GATATCGCGTCGCAATATCACGCG	<u> </u>
2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2943	CCCTGCACGATTAAGCCACCTGTA	
2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2944	TGACATACAGATTTGTGTGGCCCC	GGGCCACACAAATCTGTATGTCA
40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2945	GTTTGCGGCCGGTATTCACGATGT	ACATCGTGAATACCGGCCGCAAAC
		2946	TTTTACCTGGCCATTGGTGAGCTC	GAGCTCACCAATGGCCAGGTAAAA
2948 GGGTTGGAGGGAGTCTTGACCATT AATGGTCAAGACTCCCTCCAACCC	40	2947	CTCTACTCAATCAGGGTGGGAGCG	CGCTCCCACCCTGATTGAGTAGAG
		2948	GGGTTGGAGGGAGTCTTGACCATT	AATGGTCAAGACTCCCTCCAACCC

29 29 29 29 29 29 29 10 29	50 CTTTA 51 CATTO 52 GTAC 53 TTCC 54 TACG 55 CTGT 56 CTTA 57 CACA 58 CGCA	GTCGGTAAGGAAAAGCTTGC ACGCAGGCACCTCCGAGCTG GTATGGCCACGTGATTGACG GGTGCGAGAGCGCCTAAGCG ATATGCCGAAATGGACACAA CCTTCCGCTATAGCTCGTGA ACGCCACGCATGAAGGGTGA CGCGTCCAATGACTGCCACC TGGTAGAACTCGATCGCAG	GCAAGCTTTTCCTTACCGACCTCG CAGCTCGGAGGTGCCTGCGTAAAG CGTCAATCACGTGGCCATACAATG CGCTTAGGCGCTCTCGCACCGTAC TTGTGTCCATTTCGGCATATGGAA TCACGAGCTATAGCGGAAGGCGTA TCACCCTTCATGCGTGGCGTACAG GGTGGCAGTCATTGGACGCGTAAG
5 29 29 29 29 29 29 10 29	51 CATTO 52 GTAC 53 TTCC 54 TACG 55 CTGT 56 CTTA 57 CACA 58 CGCA	GTATGGCCACGTGATTGACG GGTGCGAGAGCGCCTAAGCG ATATGCCGAAATGGACACAA CCTTCCGCTATAGCTCGTGA ACGCCACGCATGAAGGGTGA CGCGTCCAATGACTGCCACC TGGTAGAACTCGATCGCAG	CGTCAATCACGTGGCCATACAATG CGCTTAGGCGCTCTCGCACCGTAC TTGTGTCCATTTCGGCATATGGAA TCACGAGCTATAGCGGAAGGCGTA TCACCCTTCATGCGTGGCGTACAG
5 29 29 29 29 29 10 29	52 GTAC 53 TTCC 54 TACG 55 CTGT 56 CTTA 57 CACA 58 CGCA	GGTGCGAGAGCGCCTAAGCG ATATGCCGAAATGGACACAA CCTTCCGCTATAGCTCGTGA ACGCCACGCATGAAGGGTGA CGCGTCCAATGACTGCCACC TGGTAGAACTCGATCGCAG	CGCTTAGGCGCTCTCGCACCGTAC TTGTGTCCATTTCGGCATATGGAA TCACGAGCTATAGCGGAAGGCGTA TCACCCTTCATGCGTGGCGTACAG
5 29 29 29 29 29 10 29	53 TTCC 54 TACG 55 CTGT 56 CTTA 57 CACA 58 CGCA	ATATGCCGAAATGGACACAA CCTTCCGCTATAGCTCGTGA ACGCCACGCATGAAGGGTGA CGCGTCCAATGACTGCCACC TGGTAGAACTCGATCGGCAG	TTGTGTCCATTTCGGCATATGGAA TCACGAGCTATAGCGGAAGGCGTA TCACCCTTCATGCGTGGCGTACAG
29 29 29 29 10 29	54 TACG 55 CTGT 56 CTTA 57 CACA 58 CGCA	CCTTCCGCTATAGCTCGTGA ACGCCACGCATGAAGGGTGA CGCGTCCAATGACTGCCACC TGGTAGAACTCGATCGGCAG	TCACGAGCTATAGCGGAAGGCGTA TCACCCTTCATGCGTGGCGTACAG
29 29 29 10 29	55 CTGT 56 CTTA 57 CACA 58 CGCA	ACGCCACGCATGAAGGGTGA CGCGTCCAATGACTGCCACC TGGTAGAACTCGATCGGCAG	TCACCCTTCATGCGTGGCGTACAG
29 29 10 29 29	56 CTTA 57 CACA 58 CGCA	CGCGTCCAATGACTGCCACC TGGTAGAACTCGATCGGCAG	
10 29 29	57 CACA 58 CGCA	TGGTAGAACTCGATCGGCAG	GGTGGCAGTCATTGGACGCGTAAG
10 29	58 CGCA		
29			CTGCCGATCGAGTTCTACCATGTG
<u> </u>		CCGGAAACTAGTGGATGTGT	ACACATCCACTAGTTTCCGGTGCG
29	59 ACTA	TGGCAACCGACACTTGGTCC	GGACCAAGTGTCGGTTGCCATAGT
<del></del>	60 CTAG	TTTGCGCTACCCACCTGCAA	TTGCAGGTGGGTAGCGCAAACTAG
29	61 TAGT	ATCGCCCGACAATAGCCTGG	CCAGGCTATTGTCGGGCGATACTA
29	62 CCAA	TATTTACGGCCTGATCAGCG	CGCTGATCAGGCCGTAAATATTGG
15 29	63 ATGG	CTATCCCTTACTGGCTCGCC	GGCGAGCCAGTAAGGGATAGCCAT
29	64 CAAA	ACTTGGCAGGCTTGGGACTT	AAGTCCCAAGCCTGCCAAGTTTTG
29	65 AATG	ACCGAGGCTGCAAGATTGAC	GTCAATCTTGCAGCCTCGGTCATT
29	66 ATCA	TCTTTCGCCACCAGACATGG	CCATGTCTGGTGGCGAAAGATGAT
29	67 CGTT	ATTACCGATGCACACGTTGC	GCAACGTGTGCATCGGTAATAACG
20 29	68 CACA	CTGGCAATCGCCTCCCTCGT	ACGAGGGAGGCGATTGCCAGTGTG
29	69 AGG1	TGGTAGGAAATCGGAGCGCT	AGCGCTCCGATTTCCTACCAACCT
29	70 GCT	BAACCACTGTGGTCAAGATGC	GCATCTTGACCACAGTGGTTCAGC
29	71 CGTT	GAGTACGACACGGTCGAGGT	ACCTCGACCGTGTCGTACTCAACG
29	72 TITT	TCCGCCGCAATGTGATCTAA	TTAGATCACATTGCGGCGGAAAAA
25 29	73 ACAA	TACCTCGACCGCTCAGCATC	GATGCTGAGCGGTCGAGGTATTGT
29	974 AGTA	TCCCTGCTGGCATACACGGG	CCCGTGTATGCCAGCAGGGATACT
29	75 TCTT	GGGCTCGGTAGTTCAGCACT	AGTGCTGAACTACCGAGCCCAAGA
29	976 CCCT	TATATCGAGCCCATAGGGCGA	TCGCCCTATGGGCTCGATATAGGG
29	77 CACC	SAGTGGCATCAACGGCCTACT	AGTAGGCCGTTGATGCCACTCGTG
30 29	78 TGC	GGGTCCGATGTGTTCAAGTA	TACTTGAACACATCGGACCCTGCA
29	979 GCTT	GACCGCTGCTAACCTCGTAC	GTACGAGGTTAGCAGCGGTCAAGC
29	980 TTTT	GCATCTCTCCACCATCCAGA	TCTGGATGGTGGAGAGATGCAAAA
29	981 AGA	TGTGCACCGGCTTCCATCTT	AAGATGGAAGCCGGTGCACATTCT
· 29	982 TGTT	ATGACCCGCTCTGTGGCGTG	CACGCCACAGAGCGGGTCATAACA
35 29	983 GGA	CTCCTGTTTCATCGAGGCTA	TAGCCTCGATGAAACAGGAGCTCC
. 29	984 CATT	TTGCTGTTTGGGGGTCCCAT	ATGGGACCCCAAACAGCAAAATG
29	985 CCC	GCTCCTTCACGTGAGACGAGA	TCTCGTCTCACGTGAAGGAGCGGG
25	986 GCG	CTCAAGTCGATTGCCACAACC	GGTTGTGGCAATCGACTTGAGCGC
25	987 CGG	TGACGGAGACCGCAGTACTT	AAGTACTGCGGTCTCCGTCAACCG
40 29	988 ACTO	AAGACCGGTGCACCTCCAGC	GCTGGAGGTGCACCGGTCTTGAGT
25	989 TTTC	GTGTGCATGCAAGTAATGGC	GCCATTACTTGCATGCACACGAAA

	2990	GCGGCGTTAGCTCGAGCTAACAAA	TTTGTTAGCTCGAGCTAACGCCGC
	2991	GGGTATCCTGCCCGAGCAGTAATT	AATTACTGCTCGGGCAGGATACCC
	2992	GGCTCCGAATCTCTTGTCCGGTCT	AGACCGGACAAGAGATTCGGAGCC
	2993	AGGATGGCCACGCCGAATCAAAGT	ACTITGATTCGGCGTGGCCATCCT
5	2994	GTGCGGGGACGTTTACATAACGAG	CTCGTTATGTAAACGTCCCCGCAC
	2995	ACTITTGACCTGAGGCCGCTTGCA	TGCAAGCGGCCTCAGGTCAAAAGT
	2996	ACTCCGCTTCAATGGAGACCGTTG	CAACGGTCTCCATTGAAGCGGAGT
	2997	GATCGGAATTCGCCGCCATATTGA	TCAATATGGCGGCGAATTCCGATC
	2998	ATGCGTGCCCATGGAATGACTTTT	AAAAGTCATTCCATGGGCACGCAT
10	2999	CCGCATCGCACGAAGGCAGGTCAT	ATGACCTGCCTTCGTGCGATGCGG
	3000	CACCCTATGCGTCTCCAATTCCTG	CAGGAATTGGAGACGCATAGGGTG
	3001	TGATATGCATCGCTGAGCCTCTGT	ACAGAGGCTCAGCGATGCATATCA
	3002	AGCTTCACACGCTCACTGAACCTG	CAGGTTCAGTGAGCGTGTGAAGCT
	3003	AACCCGGAACCTCCTCTCACTCGG	CCGAGTGAGAGGAGGTTCCGGGTT
15	3004	CTCGTCAAACTTGGCCGAGGAGTC	GACTCCTCGGCCAAGTTTGACGAG
	3005	GTAGCTGGCAACAGGCAATCAGGA	TCCTGATTGCCTGTTGCCAGCTAC
	3006	CTTGTCACGAATATTCGCCAAGCG	CGCTTGGCGAATATTCGTGACAAG
	3007	CAGTATCTGAAACACGGGGTGCTG	CAGCACCCGTGTTTCAGATACTG
	3008	GGCTAAAATGGGCGCCCACGTGTA	TACACGTGGGCGCCCATTTTAGCC
20	3009	ATGAGAGCCAAGCGCCTCAACTCC	GGAGTTGAGGCGCTTGGCTCTCAT
	3010	TATTGTTAGGCACCGCTTCGCGCT	AGCGCGAAGCGGTGCCTAACAATA
	3011	GGAACTAGATTGCCAGTGCTCGCC	GGCGAGCACTGGCAATCTAGTTCC
	3012	AGTCGACCCCAAGGCAACTGGGTC	GACCCAGTTGCCTTGGGGTCGACT
	3013	GGTACTGTTAGCTCGACGATGGCC	GGCCATCGTCGAGCTAACAGTACC
25	3014	CCGCAATACTTGACGGTAACAGGG	CCCTGTTACCGTCAAGTATTGCGG
	3015	AATTCCGGGTTTGAACGGTTGGAA	TTCCAACCGTTCAAACCCGGAATT
	3016	GACACGCAATCGGGTCTATGCGAA	TTCGCATAGACCCGATTGCGTGTC
	3017	GATTTTGGCGTCTCATTGCGTGAT	ATCACGCAATGAGACGCCAAAATC
	3018	TGCCATAGGGAGGAAACGCAATTA	TAATTGCGTTTCCTCCCTATGGCA
30	3019	GAGGTGCCCATGTTAGTGGTGTCC	GGACACCACTAACATGGGCACCTC
	3020	GCTTTAGCGGTCATACGACCACCA	TGGTGGTCGTATGACCGCTAAAGC
	3021	CCGCTACCAACAATCCGATTAACG	CGTTAATCGGATTGTTGGTAGCGG
	3022	GAGGATCTGGCCACATCGAGAAAG	CTTTCTCGATGTGGCCAGATCCTC
	3023	CTCGTTTGGTACCACGTTTTGCCG	CGGCAAAACGTGGTACCAAACGAG
35	3024	AATACACGCGGCGTAAACAGACGA	TCGTCTGTTTACGCCGCGTGTATT
	3025	TGTCATGGGCCAAATGACAGTGGC	GCCACTGTCATTTGGCCCATGACA
	3026	ACAGCACTTCCGACCCGTGTACGA	TCGTACACGGGTCGGAAGTGCTGT
	3027	CTCCGTAAAGAGCACAGCTTTGCC	GGCAAAGCTGTGCTCTTTACGGAG
	3028	ACGAACAGGTAGGGATCGGTCCTC	GAGGACCGATCCCTACCTGTTCGT
40	3029	TGGATCCACCTTACCGCGCCATCG	CGATGGCGCGGTAAGGTGGATCCA
	3030	AGTATCAAATAGCGGCGCGCAAG	CTTGCCGCGCCGCTATTTGATACT

3032   CTCCTCGGGGAGTCGAGGAGTACG   CGTACTCCTCGACTCCCCG				
3033   ASTGTCGAGCCAACTCCCACCAT   ATTGGTGGAGTTGGCTCG	AATTC	CCGCCTCCATCCACAATGTAA	GAATTACATTGTGGATGGAGGCGG	ſ
3034   AAATGACATCCGTTTGGCCACAGC   GCTGTGGCCAAACGGATGT	AGGAG	CGTACTCCTCGACTCCCCGAG	CTCCTCGGGGAGTCGAGGAGTACG	
5 3035 CGAATCATATCGCCATCGAACTGG CCAGTTCGATGGCGATATG. 3036 TATAATCCACTCGCTTGGTGCGCA TGCGCACCAAGCGAGTGCA 3037 GCCAAGCAGATGGTAATTATGGCG CGCCATAATTACCATCTGCT 3038 CACGCGGGAAGACCACGTAGAACT AGTTCTACGTGCTCTTCCCC 3039 TACCCGAGAATTTGGAGAACAGCG CGCTGTTCTCCAAATTCTCCC 3040 TGACGGCAAACTGTGGCATCTATC GATAGATGCCACAGTTTGCC 3041 CACAGTGTTCCAGCCCTTGACGAT ATCGTCAAGGGCTGGAACA 3042 TACCCGCCCACACATGAAAGTTGG CCAACTTTCATGTGTGGGACA 3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCCGAATCTTAATAT 3044 ACTGAAAAAAGAACGGGTAGCGG CCCGCCAACCATGTTTGCG 3045 TCTCAACCGCATAGGGGTCATTG CAATGACCACCTATTGCGG 3046 ACTTTTTGGCGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCCAA 3047 CTGCCCAGATCATTGCGCGATCG CGGATCGCCGATTCTTTTTT 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACC 3049 AGGCGTCCCAAACGTCCTTCTGT ACAGAAGAGAGCGTTTGGAGA 3050 AGATCCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAAGGATAC 3051 ACAGGGTGAAGAGACCGTGGGATC CATCCCACGGTTCTTTCACC 3052 GACTGTCTAACGGACGACACGAC CGTCGTTCTCTCAAAGCATTTAACC 3053 AGCTGTTAACGGACGACACGACG CGTCGTTGTGTAGAA 3054 TTGCGTAGTGTGGGCCTGC ACACGGTTCGTCTCTCAAAGCATTCTCAAGAAGAACGCTCTTCTCAAAGAAAACAAAC	ACACT	ATTGGTGGGAGTTGGCTCGAC	AGTGTCGAGCCAACTCCCACCAAT	
3036 TATAATGCACTGGCTTGGTGCGCA TGCGCACCAAGCGAGTGCA 3037 GCCAAGCAGATGGTAATTATGGCG CGCCATAATTACCATCTGCT 3038 CACGCGGGAAGAGCACGTAGAACT AGTTCTACGTGCTCTTCCCC 3039 TACCCGAGAATTTGGAGAACAGCG CGCTGTTCTCCAAATTCCCC 3039 TACCCGAGAATTTGGAGAACAGCG CGCTGTTCTCCAAATTCTCCC 3040 TGACGGCAAACTGTGGCATCTATC GATAGATGCCACAGTTTGCC 3041 CACAGTGTTCCAGCCCTTGACGAT ATCGTCAAGGGCTGGAACA 3042 TACCCGCCCACACATGAAAGTTGG CCAACTTTCATGTGTGGGCC 3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCGAATCTTAAATAT 3044 ACTGAAAAAAGAACGGGTAGCGG CCCGCTACCCGTTCTTTTTT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGG 3046 ACTTTTTGGCGGGCCCTCTCTCTGT ACGAGAAGAGGGGCCCGCAA 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTG 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAGA 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAGA 3051 ACAGGGTGAAGAGACCGTGGGATC 3052 GACTGTCTAACGGACGACCGCG CGCCGGTTAAAGCATTTAACC 3053 AGCTGTTAGCGGCACACCGGT CATCCCACGGTCCTTAAA 3054 TTGCGTAAGAGACCGTGGGATC CATCCCACGGTCCTTAAA 3055 AGCTGTTAAGGACCCGACAACCGGT ACCGGTTGCTCGTTAGA 3056 TTAAGGGCGTTCTTTCCTTTTCCTT AGAGGAAATGCCCACACTA 3057 ACCTTTAAACTTGTACCGCGC CGTCGTTCTCCACGGACCAC 3058 AGGGGTCCGCGTTCTTTCCTT 3058 AGGGATGCACACCGGT ACCGGTTACAAGAAAGAACGCG 3059 CGGTTCAACTTTTCCTCT AACATGAAAAAAAAAAAAAA	CATTT	GCTGTGGCCAAACGGATGTCA	AAATGACATCCGTTTGGCCACAGC	ſ
3037 GCCAAGCAGATGTAATTATGGCG CGCCATAATTACCATCTGCT 3038 CACGCGGGAAGAGCACGTAGAACT AGTTCTACGTGCTCTTCCCC 3039 TACCCGAGAATTTGGAGAACAGCG CGCTGTTCTCCAAATTCTCCC 3039 TACCCGAGAATTTGGAGAACAGCG CGCTGTTCTCCAAATTCTCCC 3040 TGACGGCAAACTGTGGCATCTATC GATAGATGCCACAGTTTGCC 3041 CACAGTGTTCCAGCCCTTGACGAT ATCGTCAAGGGCTGGAACA 3042 TACCCGCCCACACATGAAAGTTGG CCAACTTTCATGTGTGGGC 3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCGAATCTTAAATAT 3044 ACTGAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTTTT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGG 3046 ACTTTTTGGCGGGCCCTCTCTCTT ACGAGAGAGGGCCCGCCAA 3047 CTGCCCAGATCATTGCGCGATCCG GGATCGCGCAATATTGCG 3048 CGGAGGTTAAATGCTTTAACCGGC GCCAGCACACGCCAATAGACGACTATCTGG 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGACCA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTTTCACC 3052 GACTGTCTAACGGACGACACCGC GCTCGTTGTCGTCAGA 3053 AGCTGTTAAGGACCGACAACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGGCGTTCTTTCCTTTTCTTTTTCTTTTTTCAGTTTTTTTT	ATTCG	CCAGTTCGATGGCGATATGAT	CGAATCATATCGCCATCGAACTGG	5
3038 CACGCGGGAAGAGCACGTAGAACT AGTTCTACGTGCTCTTCCCCC 3039 TACCCGAGAATTTGGAGAACAGCG CGCTGTTCTCCAAATTCTCC 3040 TGACGGCAAACTGTGGCATCTATC GATAGATGCCACAGTTTGCC 3041 CACAGTGTTCCAGCCCTTGACGAT ATCGTCAAGGGCTGGAACA 3042 TACCCGCCCACACATGAAAGTTGG CCAACTTTCATGTGTGGGCC 3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCGAATCTTAAATAT 3044 ACTGAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTTT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGG 3046 ACTTTTTGGCGGGCCCTCTCTCGT ACGAGAGAGAGGGCCCGCAA 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTG 3048 CGGAGGTTAAATGCTTTAACCGGC GCGGTTAAAGCATTTAACC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAGAA 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAGAA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCACAGGTCCTTCACC 3052 GACTGTTAACGGACACACAGC CGTCGTTGTCGTCCGTTAGA 3053 AGCTGTTAAGGACCACACAGCG CGTCGTTGTCGTCCGTTAGA 3054 TTGCGTAGTGGGGCCTCTCTTCCTT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG 3057 ACCTTTAAACTTGTACCGCGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGAGAAAAAAGCG 3059 CGGTTCGACCTATTTCCCGCGGCCC GGGCCGCGGTACAAGTTTA 3059 CGGTTCGACCTATGAGCACCACATGTT AACATGTGGTGCCTCTCCAC 3059 CGGTTCGACCTATGAGCACCACCACTT TACAGGAAAAACAGCG 3059 CGGTTCGACCTATGAGCACCCCACATTTA AACATGTGGTGCCTCTCCAC 3060 CAGGGCGATAGTCACATGGAGGTT AACATGTGACCTCTCCACACTACGTCGACACCCCCACTACTACGCCGCCCCGTTCAACACCCCCACTACCCCCCGTTTCAACACCCCACTACCCCCCGTTTCAACTCCGACCCCCCCTTTCCAACCCCCCCGTTTCAACTCCCACCACTACCCCCCCGTTTCAACTCCCACCCCCCCC	TTATA	TGCGCACCAAGCGAGTGCATT	TATAATGCACTCGCTTGGTGCGCA	
10 3039 TACCCGAGAATTTGGAGAACAGCG CGCTGTTCTCCAAATTCTCC 3040 TGACGGCAAACTGTGGCATCTATC GATAGATGCCACAGTTTGC 3041 CACAGTGTTCCAGCCCTTGACGAT ATCGTCAAGGGCTGGAACA 3042 TACCCGCCCACACTGAAAGTTGG CCAACTTTCATGTGTGGGCC 3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCGAATCTTAAATAT 3044 ACTGAAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTTT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGG 3046 ACTTTTTGGCGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCAA 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTG 3048 CGGAGGTTAAATGCTTTAACCGGC GCGGTTAAAGCATTTAACC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAAGA 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAAGA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCACAGGTTCTTCACC 3052 GACTGTTAACGGACACACAGC CGTCGTTGTCGTCCGTTAGA 3053 AGCTGTTAAGGACCCGACAACCGGT ACCGGTTGTCGTCCGTTAGA 3054 TTGCGTAGTGGGGCCTCTCTTCATCAGAGAAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAAGAGG 3056 TTAAGGGCGTCCGGCTCTATTCAG 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGAGGAAAAGAGGG 3059 CGGTTCGACGTATTTAACCTGATTTAACCTGCAAACGGT 3059 CGGTTCGACGATTTCACGCGGCCC GGGCCGCGTACAAGTTTA 3059 CGGTTCGACCTATGAGCACCACATGTT AACATGTGGTGCCTCTCGCA 3059 CGGTTCGACCTATGAGCATCCGCA TGCGGATGCCTCTTCACA 3050 CAGGGCGATAGTCACATGGAGGTT AACATGAAACGGGGCAGT 3061 GCTTGACTGCCCCGTTTCATATGT ACATTAGAACGGGGCAGT 3062 CGAAGGGGTTCTGCAATTACCCGA TGCGGATACTACTCGCG 3063 AAAACGCACCGCAATGACAAAATT AACATTGCACTACCCCAACCCCGAAACCCCCAATGACAAAATT AACATTGCACAACCCC 3063 AAAACCGACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCCCAAGCCCCCCCCAATGACAAAATT AATTTTGTCATTGCGGTGCCCCCCGTTTGCCAACCCCCCCC	TGGC	CGCCATAATTACCATCTGCTTG	GCCAAGCAGATGGTAATTATGGCG	<u> </u>
10 3040 TGACGGCAAACTGTGGCATCTATC GATAGATGCCACAGTTTGCC 3041 CACAGTGTTCCAGCCCTTGACGAT ATCGTCAAGGGCTGGAACA 3042 TACCCGCCCACACATGAAAGTTGG CCAACTTTCATGTGTGGGCC 3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCGAATCTTAAATAT 3044 ACTGAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTTT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGG 3046 ACTTTTTGGCGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCAA 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTG 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGGAGA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACC 3052 GACTGTCTAACGGACGACACGACG CGTCGTGTCGTCCGTTAGA 3053 AGCTGTTAGCGGACCACACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCCACACTA 3055 ATGCGCGCTTCTTTCCTTTCATGTA TACATCAAGGAAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATCAAGGAAAGAAGCG 3059 CGGTTCGACGTATGAGCACCCCACTATTTAACTTGTACCGCGGCCC TGCGGATGCCTCTCCAC 3060 CAGGGCGATAGTCACATGGTT AACATGTGGTGCCTCTGCAC 3061 GCTTGACTGCCCCGTTTCATATGT ACATCAAGAACGGGGCAGT 3062 CGAAGGGGTTGGCAATTACCCGA TCGGGTACTATTGCGCGGCCG 3063 AAAACGCACCGCAATGACAAAATT ACTTTTTTTTTTTT	CGTG	AGTTCTACGTGCTCTTCCCGC	CACGCGGGAAGAGCACGTAGAACT	<u> </u>
3041 CACAGTGTTCCAGCCCTTGACGAT ATCGTCAAGGGCTGGAACA 3042 TACCCGCCCACACATGAAAGTTGG CCAACTTTCATGTGTGGGC 3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCGAATCTTAAATAT 3044 ACTGAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTTT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGG 3046 ACTTTTTGGCGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCAA 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTG 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAGA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAAGAACCGTGGGATG CATCCCACGGTCTCTTCACC 3052 GACTGTCTAACGGACGACACGACG CGTCGTGTCGTCCGTTAGA 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCCACACTA 3055 ATGCGCGCTTCTTTCCTTTGATGTA TACATCAAGGAAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCCTCTGCAC 3060 CAGGGCGATAGTCACATGGAGGTT AACATGTGGTGCCTTCTCAC 3061 GCTTGACTGCCCCGTTTCATATGT ACATTGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTACTATTGCG 3063 AAAACGCACCGCAATGACAAAATT ACATTGCAGAACCCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGCACTAGCGGGCACGCC 3064 ATTCCTGGACAAAGACCCTCAACCG CGGTTGAGGGGTCTTGTCCA	GGTA	CGCTGTTCTCCAAATTCTCGG	TACCCGAGAATTTGGAGAACAGCG	
3042 TACCCGCCCACACTGAAAGTTGG CCAACTTTCATGTGTGGGCC 3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCGAATCTTAAATAT 3044 ACTGAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGG 3046 ACTTTTGGCGGGCCCTCTCTGT ACGAGAGAGGGCCCGCAA 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTG 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGACC 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTTCTACC 3052 GACTGTCTAACGACCACGACG CGTCGTTGTCCCTTAAA 3053 AGCTGTTAAGGACCACACCACG 3054 TTGCGTAGTGGGCATTTCCTCT AGAGGAAATGCCCACACTAA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAACGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGTACAAGTTAA 3058 AGGGATGCAGAGGACACCACATGTT 3058 AGGGATGCAGAGGCACCACACTGTT 3059 CGGTTCGACGAGAGCACCACATGTT 3059 CGGTTCGACGATAGCACCCCACACTGTT 3059 CGGTTCGACGATAGCACCCCCACACTGTTCACCCACACTACCCCCACACTACCCCCACACTACCCCCC	CGTCA	GATAGATGCCACAGTTTGCCG	TGACGGCAAACTGTGGCATCTATC	o t
3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCGAATCTTAAATAT 3044 ACTGAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGG 3046 ACTTTTTGCGCGGCCCTCTCTCGT ACGAGAGAGGGCCCGCAA 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTG 3048 CGGAGGTCAATGCGTCGATCCG CGGATCGCGCAATGATCTG 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAGAA 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAGAA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTTTCACA 3052 GACTGTCTAACGGACCACACGACG CGTCGTGTCGTCCGTTAGA 3053 AGCTGTTAAGGACCCGACAACCGGT ACCGGTTGTCGTCCGTTAGA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGACGG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACACACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGACCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGACCACCCCACTATGCGGATGCTCATACCGCGGCCC 3063 AGACCGCATAGTCACATGGAGGTT ACCTCCATGTGACTATCCGC 3063 AAAACGCACCGCAATGACAAAATT AACATGTGAGGTCCCAACCCC 3063 AAAACGCACCGCAATGACAAAAATT AATTTTGTCATTGCAGTGCCCCGCTCTGCCA 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA	CTGTG	ATCGTCAAGGGCTGGAACACT	CACAGTGTTCCAGCCCTTGACGAT	
3044 ACTGAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTTT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGG 3046 ACTTTTTGCGGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCCA 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTG 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAAGGACGTTTGGAGA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACC 3052 GACTGTCTAACGGACGACACCGGT ACCGGTTGTCGTCCGTTAGA 3053 AGCTGTTAAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGGCAATTACCCGA TGCGGATGCTCATACGTCG 3063 AAAACGCACCGCAATGACAAAATT AACTTTGTCATTGCGGTGCCC 3063 AAAACGCACCGCAATGACAAAAATT AATTTTGTCATTGCGGTGCCCAGCAGCACCCCCGAATGACAAAAATT AATTTTGTCATTGCGGTGCCCCGTTGCAATGCCACCCCCGCTTAGCACAACCCCCCCC	3GGTA	CCAACTTTCATGTGTGGGCGG	TACCCGCCCACACATGAAAGTTGG	Ī
15 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGG 3046 ACTITITGGCGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCAA 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTG 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGGAGA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACC 3052 GACTGTCTAACGGACGACACCGGC CGTCGTGTCGTCCGTTAGA 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGATGACCACCACTGT AACATGTGGTGCCTCTGCA 3060 CAGGGCGATAGTCACATGGAGGTT AACATCTGAACACGCGGACGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCCCAATGACAAAATT AATTTTGTCATTGCGGTGCCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGGTCTTGTCCA	GCCA	CGTCGCCGAATCTTAAATATG	TGGCATATTTAAGATTCGGCGACG	ľ
20 3050 AGACTATTCCTGAGGGCCCTCTCTCTGT ACGAGAGAGGGCCCGCAAGATGATCTGGCCGATCGGCGATCGCGCAATGATCTGGCGGTTAAAGCATTTAACCGGC GCGGTTAAAGCATTTAACCGGC GCGGTTAAAGCATTTAACCGGC GCGGTTAAAGCATTTAACCGGC GCGGTTAAAGCATTTAACCGGC GCGGTTAAAGCATTTAACCGGC GCAGGCCCACTCAGGATAGGAGAGGACGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGGAGAAGAGAGACGATCGGATAGGAGAGAGA	CAGT	CCCGCTACCCGTTCTTTTTCA	ACTGAAAAAGAACGGGTAGCGGG	-
20 CGGATCGCCGAATGATTGCGCGATCCG CGGATCGCGCAATGATCTG 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGGAGA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACC 3052 GACTGTCTAACGGACGACACGACG CGTCGTGTCGTCCGTTAGA 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3060 CAGGGCGATAGTCACATGGAGGTT AACATGTGGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGGTCTTGTCCA	TCAGA	CAATGACCACCTATTGCGGTC	TCTGACCGCAATAGGTGGTCATTG	5
3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGGAGA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACC 3052 GACTGTCTAACGGACGACACCGAC CGTCGTGTCGTCCGTTAGA 3053 AGCTGTTAAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACCGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT ACTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA	AAAGT	ACGAGAGAGGCCCGCCAAA	ACTITITGGCGGGCCCTCTCTCGT .	Ī
3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGGAGA 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACC 3052 GACTGTCTAACGGACGACACGACG CGTCGTGTCGTCCGTTAGA 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3061 GCTTGACTGCCCCGTTTCATATGT ACCATCATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGGTCTTGTCCA	GGCAG	CGGATCGCGCAATGATCTGGG	CTGCCCAGATCATTGCGCGATCCG	ľ
20 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAG 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACC 3052 GACTGTCTAACGGACGACACCGACG CGTCGTGTCGTCCGTTAGA 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAG	TCCG	GCCGGTTAAAGCATTTAACCTC	CGGAGGTTAAATGCTTTAACCGGC	F
3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACC 3052 GACTGTCTAACGGACGACACGACG CGTCGTGTCGTCCGTTAGA 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAAC 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCAC 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCACGGCAGCAGCACCGCAATGACAAAATT AATTTTGTCATTGCCGTGCCCAGCAGCACCCCCAATGACAAAATT AATTTTGTCATTGCGGTGCCCAGCAGCACCCCCCAATGACAAAATT AATTTTGTCATTGCGGTGCCCAGCAGCACCCCCCAATGACAAAAATT AATTTTGTCATTGCGGTGCCCCCGTTCCAACCG CGGTTGAGGGTCTTTGTCCACAGCCCCCCCCCC	CGCCT	ACAGAAGGACGTTTGGAGACG	AGGCGTCTCCAAACGTCCTTCTGT	
3052 GACTGTCTAACGGACGACGACG CGTCGTGTCGTCCGTTAGA 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA	CATCT	GCAGGCCCACTCAGGATAGCA	AGATGCTATCCTGAGTGGGCCTGC	20
3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAA 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA	CTGT	CATCCCACGGTCTCTTCACCC	ACAGGGTGAAGAGACCGTGGGATG	
25 TIGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTA  3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCG  3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC  3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA  3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA  3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG  3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC  3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT  3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC  3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC  3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA	CAGTC_	CGTCGTGTCGTCCGTTAGACA	GACTGTCTAACGGACGACGACG	Ī
3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCG 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA	CAGCT	ACCGGTTGTCGGGTCCTAACA	AGCTGTTAGGACCCGACAACCGGT	Ī
3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA	CGCAA	AGAGGAAATGCCCACACTACG	TTGCGTAGTGTGGGCATTTCCTCT	Ī
3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTA 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCA 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGCACCCC	CGCAT	TACATCAAGGAAAGAAGCGCG	ATGCGCGCTTCTTTCCTTGATGTA	25
3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCAC 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCACCG 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGC	CTTAA	CTGAATAGACGCGGACGCCCT	TTAAGGGCGTCCGCGTCTATTCAG	Ī
3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAG	AAGGT	GGGCCGCGGTACAAGTTTAAA	ACCTTTAAACTTGTACCGCGGCCC	Ī
3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGC 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAG	TCCCT	AACATGTGGTGCCTCTGCATC	AGGGATGCAGAGGCACCACATGTT	Ī
3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGT 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA 35 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAG	AACCG	TGCGGATGCTCATACGTCGAA	CGGTTCGACGTATGAGCATCCGCA	Ī
3062 CGAAGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCC 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA 35 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAG		AACCTCCATGTGACTATCGCC	CAGGGCGATAGTCACATGGAGGTT	30
3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCC 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA 35 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAG	CAAGC	ACATATGAAACGGGGCAGTCA	GCTTGACTGCCCCGTTTCATATGT	
3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCA 35 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAG	CTTCG	TCGGGTAATTGCACAACCCCT	CGAAGGGTTGTGCAATTACCCGA	Ì
35 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAG	TITE	AATTITGTCATTGCGGTGCGT	AAAACGCACCGCAATGACAAAATT	Ī
000 000/100/100/100	GGAAT	CGGTTGAGGGTCTTGTCCAGG	ATTCCTGGACAAGACCCTCAACCG	Ī
3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTAC	GTAGG	CCTCACCGCTAGCAGGCAGGT	CCTACCTGCCTGCTAGCGGTGAGG	35
3000 00174410000760076 10076	GAGC	TCCAATTCCTCCCCATTTACGA	GCTCGTAAATGGGGAGGAATTGGA	
3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTC	ATGT	CCCCAATTGAGCCTGTTTTCAT	ACATGAAAACAGGCTCAATTGGGG	
0000 0,10000.10,11001.110		GAGACCTCAATCCATGTGCGG	GTTCCGCACATGGATTGAGGTCTC	
3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGC	TGCC	TTCTTCTTCGTGGTATTGGGT	GGCACCCAATACCACGAAGAAGAA	
40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATG	CCCCT	AAAGATGGAGTTCGAAATGCC	AGGGCATTTCGAACTCCATCTTT	40
3071 CATCATCACAAAGGAACGTCGGTG CACCGACGTTCCTTTGTGA	<b>FGATG</b>	CACCGACGTTCCTTTGTGATG	CATCATCACAAAGGAACGTCGGTG	

ſ	3072	TAAAGACCCACCGTCAGCAGCAGC	GCTGCTGACGGTGGGTCTTTA
	3073	CCCCAGGCGTAATGCACCACATAG	CTATGTGGTGCATTACGCCTGGGG
Ţ	3074	GCAGGTCGAACGCTAGTGGTTGAA	TTCAACCACTAGCGTTCGACCTGC
	3075	GGAACTTAGGAGTTCACGTCGCCA	TGGCGACGTGAACTCCTAAGTTCC
5	3076	GCAGATACGGCTAGCTGAGGTGGC	GCCACCTCAGCTAGCCGTATCTGC
	3077	CACAGGCCTAGAGCCTCGGCGTTC	GAACGCCGAGGCTCTAGGCCTGTG
	3078	GTTTTGCGCGCATGAGGTTCATTA	TAATGAACCTCATGCGCGCAAAAC
Ī	3079	TTGCGCCTGATGCCAGCAGTACTA	TAGTACTGCTGGCATCAGGCGCAA
Ţ	3080	GATATCAGGCTTTCCCACTGCCGC	GCGGCAGTGGGAAAGCCTGATATC
10	3081	TGCGCGGAGACGGAGATCTATGAA	TTCATAGATCTCCGTCTCCGCGCA
Ī	3082	CATTGGTGTTGGCTGAGAGTGGAC	GTCCACTCTCAGCCAACACCCAATG
1	3083	GTCGGCACTTGGGCACCATTAATA	TATTAATGGTGCCCAAGTGCCGAC
	3084	ATCGATCGGTGTCTCACCACGGAG	CTCCGTGGTGAGACACCGATCGAT
	3085	CGTAGCCTTCCACCGTGTCGATAG	CTATCGACACGGTGGAAGGCTACG
15	3086	CGCTCTCCGTCTGAGGAAAAGGGG	CCCCTTTTCCTCAGACGGAGAGCG
1	3087	TCGCCCCAGCCAAGGATATATTGC	GCAATATATCCTTGGCTGGGGCGA
j	3088	TCTCTTGCAAGGAACTCTGCCGTC	GACGGCAGAGTTCCTTGCAAGAGA
	3089	GTCCTGGACAGACGGAGGGTGTTA	TAACACCCTCCGTCTGTCCAGGAC
	3090	GCCAAATTAAGCGGGCTCGTAATC	GATTACGAGCCCGCTTAATTTGGC
20	3091	CCATTTGTTGACCGATGGGAGGGG	CCCCTCCCATCGGTCAACAAATGG
	3092	TGGTCAAAAGAGCACGATCCAGGA	TCCTGGATCGTGCTCTTTTGACCA
	3093	CGCTACTAAGACGCCCCTGTCCAC	GTGGACAGGGGCGTCTTAGTAGCG
	3094	CATACCTCCCGCTTGGATTCACTG	CAGTGAATCCAAGCGGGAGGTATG
	3095	CCGCGGAAGGAATGTCATCTACAA	TTGTAGATGACATTCCTTCCGCGG
25	3096	CACGGGACATTCATTCACAGGACG	CGTCCTGTGAATGAATGTCCCGTG
	3097	AGGAGTCACCCACTCCGCACAAAA	TTTTGTGCGGAGTGGGTGACTCCT
	3098	TCATGACAGCGCACCCCATACCAT	ATGGTATGGGGTGCGCTGTCATGA
	3099	GGTAGGGGACTATCGATCGTGCTG	CAGCACGATCGATAGTCCCCTACC
	3100	ATGTCTCACTACCGCACGTAGCGG	CCGCTACGTGCGGTAGTGAGACAT
30	3101	ACGGAGGAGCGACTCGTTCGCTGC	GCAGCGAACGAGTCGCTCCTCCGT
	3102	GAAGTCTGTCGCCGGTGGACGGAC	GTCCGTCCACCGGCGACAGACTTC
	3103	CCGTAACGTGTATTCGGACGAGCG	CGCTCGTCCGAATACACGTTACGG
	3104	CGTGGAAGCGACTTAACCAATCGT	ACGATTGGTTAAGTCGCTTCCACG
İ	3105	GGCATGGGCTATGCCTCACACTAG	CTAGTGTGAGGCATAGCCCATGCC
35	3106	GGGTCGTATTTCAGCATCGTTCGT	ACGAACGATGCTGAAATACGACCC
	3107.	AATGGTCGCGCAAACCGTAAGAAT	ATTCTTACGGTTTGCGCGACCATT
	3108	CTGGATTCGGTACGTCCAACGTTT	AAACGTTGGACGTACCGAATCCAG
	3109	CGCAAAAACACCCGTAGCCAAGAA	TTCTTGGCTACGGGTGTTTTTGCG
	3110	TATGGATACGCTTTTGGACTGGGC	GCCCAGTCCAAAAGCGTATCCATA
40	3111	GCTTCAAACGCGCTTCACGCTGGT	ACCAGCGTGAAGCGCGTTTGAAGC
	3112	TACAGCCCGCTCTACCTCGCCACC	GGTGGCGAGGTAGAGCGGGCTGTA

-		TOLLOGOATOTOLANATOCACCTT	AACGTGCATTTTGACATCGGTTGA
-	3113	TCAACCGATGTCAAAATGCACGTT	TACCGCCTACTTCGGAGAGAGCT
-	3114	AGCTCTCCGAAGTAGGGCGGTA	
<u> </u>	3115	ACGCACACATGGAGACTTGGCTCC	GGAGCCAAGTCTCCATGTGTGCGT
	3116	TTCTTGAAAGCTAGTGGGGCGCTA	TAGCGCCCACTAGCTTTCAAGAA
5	3117	CAATCACGGCTGGGCTATTCTGTG	CACAGAATAGCCCAGCCGTGATTG
	3118	GTGGCGACCCGTCGGTGAAAGAGT	ACTCTTTCACCGACGGGTCGCCAC
L	3119	CGTCGAATGCCGAACCAGTTAAGT	ACTTAACTGGTTCGGCATTCGACG
	3120	TGCGTATTTGCATGCTCACAGCTG	CAGCTGTGAGCATGCAAATACGCA
	3121	CGCAGTTGGTTTGTGCACGGCTGC	GCAGCCGTGCACAAACCAACTGCG
10	3122	GTTTTTCCGTGAAAACTGGCATCG	CGATGCCAGTTTTCACGGAAAAAC
	3123	ACAGGTTCCTCCACCACGATTTGA	TCAAATCGTGGTGGAGGAACCTGT
Ī	3124	CTAGCGCGCTTTTAGGTCCTTGCG	CGCAAGGACCTAAAAGCGCGCTAG
İ	3125	CAAAATCAAAGGGATCAACCGGTG	CACCGGTTGATCCCTTTGATTTTG
Ì	3126	AACGTAACCCCAGTGAGTCAGGCA	TGCCTGACTCACTGGGGTTACGTT
15	3127	TCAACCGGTGCACTTTAGAACGCC	GGCGTTCTAAAGTGCACCGGTTGA
	3128	ATCGCAAAGTTGCAGGCGAATACT	AGTATTCGCCTGCAACTTTGCGAT
	3129	ATATGTCCCTGGGTGCTGCACAAC	GTTGTGCAGCACCCAGGGACATAT
1	3130	TGGCACTTTGTAGTGCTGCGGTGG	CCACCGCAGCACTACAAAGTGCCA
}	3131	ACGCACGACGTCCTTCTAAGCTCG	CGAGCTTAGAAGGACGTCGTGCGT
20	3132	CCCACGTGCACTATAGGGATTTCG	CGAAATCCCTATAGTGCACGTGGG
	3133	CCGCGCTTGGTCAGTCATCCTTGC	GCAAGGATGACTGACCAAGCGCGG
	3134	AGCGGCTCAGGGAATAACAACAGG	CCTGTTGTTATTCCCTGAGCCGCT
	3135	ACAACGCGATCGGAGGCAACCAGT	ACTGGTTGCCTCCGATCGCGTTGT
	3136	AGCAATTGCCTCCGTAGAAACCCA	TGGGTTTCTACGGAGGCAATTGCT
25	3137	GAGTCGTGGCATCGCCTGCTATCG	CGATAGCAGGCGATGCCACGACTC
	3138	TCTATGCAAATACTGCGCTTGCGA	TCGCAAGCGCAGTATTTGCATAGA
	3139	TCAGCTTAAGTTACGGTGTGGCCG	CGGCCACACCGTAACTTAAGCTGA
	3140	TCCAAGGTCGAACAGGGATCAGAA	TTCTGATCCCTGTTCGACCTTGGA
	3141	GTTAGGCTGGCGTCAATAGCGCTT	AAGCGCTATTGACGCCAGCCTAAC
30	3142	GGTGTCATAAGGAAGAGGGCATCG	CGATGCCCTCTTCCTTATGACACC
	3143	CCGCCGGCTAGATCAATATTTCT	AGAAATATTGATCTAGCCCGCCGG
	3144	CTAACGTCAAGTTTTACGCCCCGA	TCGGGGCGTAAAACTTGACGTTAG
	3145	GCAGCACAGTTTTCCGATTTGCGG	CCGCAAATCGGAAAACTGTGCTGC
	3146	CGCACGCAAGGGGAGGGATGACTG	CAGTCATCCCTCCCCTTGCGTGCG
35	3147	CGGGGCCGAAAAGGACGTCACAAG	CTTGTGACGTCCTTTTCGGCCCCG
00	3148	TTCTCCAACACGGCTAACCGGTAG	CTACCGGTTAGCCGTGTTGGAGAA
	3149	TTACAGCCTGGCCCGAGGTAGTTG	CAACTACCTCGGGCCAGGCTGTAA
	3150	TTTCGGGCAGCATGAGTTATCGAA	TTCGATAACTCATGCTGCCCGAAA
	3151	CTACTGGACGCCCTGCTTCGAAGT	ACTTCGAAGCAGGGCGTCCAGTAG
40	3152	GGTCGTCCGACGTGAAAAGACCAA	TTGGTCTTTTCACGTCGGACGACC
70	3153	GTTTCGAGCTCTTTCTCCGCAGG	CCTGCGGAGAAGAGCTCGAAAAC
	3 100	GITTOGAGGIGITTOTOGGGAGG	

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3154	GCGTGAAGGTACCCAGTGTCACAG	CTGTGACACTGGGTACCTTCACGC
3155	TTTCTGAACGCTTCGACGCAACAC	GTGTTGCGTCGAAGCGTTCAGAAA
3156	TGCTAATAAGCACGCCTAGCCCGT	ACGGGCTAGGCGTGCTTATTAGCA
3157	AAATTAATTGTGGTGGCTCCGGCG	CGCCGGAGCCACCACAATTAATTT
3158	TTACAATCCTCGGGCTCACTGACA	TGTCAGTGAGCCCGAGGATTGTAA
3159	GCTGAAGGACAAGGCGTGGGCAAC	GTTGCCCACGCCTTGTCCTTCAGC
3160	GGGATAGGAGACCCTCGCAATGGT	ACCATTGCGAGGGTCTCCTATCCC
3161	TTGCAGTACGTCCTTGCGCATGAA	TTCATGCGCAAGGACGTACTGCAA
3162	TTGATCACTGGATTGGGTGCGAAC	GTTCGCACCCAATCCAGTGATCAA
3163	TCTGCAGACGTTGCGAGAGATGAT	ATCATCTCTCGCAACGTCTGCAGA
3164	AGTCTAGCAGGGATCGAAGCGGAT	ATCCGCTTCGATCCCTGCTAGACT
3165	GGGGTCCCGCAACAACTAATGAAG	CTTCATTAGTTGTTGCGGGACCCC
3166	CAACCTCTTATGTGGTGTGCGCGA	TCGCGCACACCACATAAGAGGTTG
3167	CTCGCTGGGTTGCTGGAGTAGCAC	GTGCTACTCCAGCAACCCAGCGAG
3168	CGTTGTATTGTGCAACGCGAAGTT	AACTTCGCGTTGCACAATACAACG
3169	GGGCTCAAAGTGCCTGAGTCGAAA	TTTCGACTCAGGCACTTTGAGCCC
3170	CTGCTGTGCCCTCTCAGTGAGAGC	GCTCTCACTGAGAGGGCACAGCAG
3171	CGGACGTACTGTTCGGAGTCCTCA	TGAGGACTCCGAACAGTACGTCCG
3172	GTATACCACCATACCGGGACCGCA	TGCGGTCCCGGTATGGTGGTATAC

## TABLE 3

_			
	Seq. ID No.	Decoder Sequence (5'-3')	Probe Sequence (5'-3')
j	17	TTCGCCGTCGTGTAGGCTTTTCAA	TTGAAAAGCCTACACGACGGCGAA
	18	GTTCCCAGTGAAGCTGCGATCTGG	CCAGATCGCAGCTTCACTGGGAAC
5	19	TACTTGGCATGGAATCCCTTACGC	GCGTAAGGGATTCCATGCCAAGTA
	20	ACTAGCATATTTCAGGGCACCGGC	GCCGGTGCCCTGAAATATGCTAGT
	21	GAACGGTCAATGAACCCGCTGTGA	TCACAGCGGGTTCATTGACCGTTC
	22	GCGGCCTTGGTTCAATATGAATCG	CGATTCATATTGAACCAAGGCCGC
i	23	GATCGTTAGAGGGACCTTGCCCGA	TCGGGCAAGGTCCCTCTAACGATC
10	24	TGGACCTAGTCCGGCAGTGACGAA	TTCGTCACTGCCGGACTAGGTCCA
	25	ATAAACTACCCAGGACGGGCGGAA	TTCCGCCCGTCCTGGGTAGTTTAT
	26	CATCGGTTCGCGCCAATCCAGATA	TATCTGGATTGGCGCGAACCGATG
	27	GTCGGGCATAGAGCCGACCACCCT	AGGGTGGTCGGCTCTATGCCCGAC
	28	CTTGGGTCATGATTCACCGTGCTA	TAGCACGGTGAATCATGACCCAAG
15	29	TGCCTAACGTGCTAATCAGCAGCG	CGCTGCTGATTAGCACGTTAGGCA
	30	CGCATGTTGGAGCATATGCCCTGA	TCAGGGCATATGCTCCAACATGCG
	31	AGCCACTGCATCAGTGCTGTTCAA	TTGAACAGCACTGATGCAGTGGCT
	32	GGTTGTTTTGAGGCGTCCCACACT	AGTGTGGGACGCCTCAAAACAACC
	33	TCGACCAAGAGCAAGGGCGGACCA	TGGTCCGCCCTTGCTCTTGGTCGA
20	34	GACATCGCTATTGCGCATGGATCA	TGATCCATGCGCAATAGCGATGTC
*	<b>3</b> 5	GAAATACGAAGTCTGCGGGAGTCG	CGACTCCCGCAGACTTCGTATTTC
	36	TGTCATGAATGATTGATCGCGCGA	TCGCGCGATCAATCATTCATGACA
	37	ATATCGGGATTCGTTCCCGGTGAA	TTCACCGGGAACGAATCCCGATAT
	38	GCGAGCGTACCGAAGGGCCTAGAA	TTCTAGGCCCTTCGGTACGCTCGC
25	39	TTACCGGCAGCGGACTTCCGAATT	AATTCGGAAGTCCGCTGCCGGTAA
	40	GTAATCGAGAGCTGCGCGCCGTCT	AGACGGCGCGCAGCTCTCGATTAC
	41	CCTGTTAGCGTAGGCGAGTCGATC	GATCGACTCGCCTACGCTAACAGG
	42	TAGCGGACCGGCAGAATGAGTTCC	GGAACTCATTCTGCCGGTCCGCTA
	43	GGTACATGCACTACGCGCACTCGG	CCGAGTGCGCGTAGTGCATGTACC
30	44	AATTCATCTCGGACTCCCGCGGTA	TACCGCGGGAGTCCGAGATGAATT
	45	GCCAAATCTGGATTGGCAGGAATG	CATTCCTGCCAATCCAGATTTGGC
	46	TGCATTTTCGGTTGAGGCACATCC	GGATGTGCCTCAACCGAAAATGCA
	47	CCGCTCAATTCACCATGCTTCGCT	AGCGAAGCATGGTGAATTGAGCGG
	48	CTCGGAAAGGTGCAACTTTGGTGT	ACACCAAAGTTGCACCTTTCCGAG
35	49	AATTCGACCAGCAGAACGTCCCAT	ATGGGACGTTCTGCTGGTCGAATT
	50	GCCAGAGTCTCAACCTCACGGGAT	ATCCCGTGAGGTTGAGACTCTGGC
	51	CCAACAACTGGAACGGGAACCCGC	GCGGGTTCCCGTTCCAGTTGTTGG
	52	GAGAACTGATCGCTGAGGGGCATG	CATGCCCCTCAGCGATCAGTTCTC
	53	GGCACACTAGACTTGTGGCACCGA	TCGGTGCCACAAGTCTAGTGTGCC

Г	F4	TCACATCCAAATATGGTCCGCGAA	TTCGCGGACCATATTTGGATGTGA
-	54	GTCTGCCGGTGTGACCGCTTCATT	AATGAAGCGGTCACACCGGCAGAC
-	55	CATCGCAGAGCATAAACACCCTCA	TGAGGGTGTTTATGCTCTGCGATG
-	56		TCCGCCTCTGCCATAGATACCAAC
Ļ	57	GTTGGTATCTATGGCAGAGGCGGA	AATGGAACCTCAGCGGCACCTCGT
5	58	ACGAGGTGCCGCTGAGGTTCCATT	
	59	GGAATGAGTGGACCCAGGCACATT	AATGTGCCTGGGTCCACTCATTCC
Ĺ	60	TGTCAATATGCGTCCGTGTCGTCT	AGACGACACGGACGCATATTGACA
ļ	61	TGATGAGCCTCAGGGTACGAGGCA	TGCCTCGTACCCTGAGGCTCATCA
].	62	CACCGCGGTGTTCCTACAGAATGA	TCATTCTGTAGGAACACCGCGGTG
10	63	TTGTTGCCAATGGTGTCCGCTCGG	CCGAGCGGACACCATTGGCAACAA
	64	TTAACCTGCGTCTGCCCCTTTCCT	AGGAAAGGGCAGACGCAGGTTAA
	65	AGGCGCGTTCCTGCCTTAGTGACG	CGTCACTAAGGCAGGAACGCGCCT
[	66	TAGGGCGATGGCACGAAGCTTCAA	TTGAAGCTTCGTGCCATCGCCCTA
	67	TGCATAGAGCCAAAGTCGGCGATG	CATCGCCGACTTTGGCTCTATGCA
15	68	TTGAGAGGCAGGTGGCCACACGGA	TCCGTGTGGCCACCTGCCTCTCAA
	69	TCCGCATTGTGAGAAAAAACGAGC	GCTCGTTTTTTCTCACAATGCGGA
	70	GGCGGTTTCCGTAGCTATAGGTGC	GCACCTATAGCTACGGAAACCGCC
	71	GGTGAAAATTTCGTAGCCACGGGC	GCCCGTGGCTACGAAATTTTCACC
	72	CCGACGGAGGATGAAGACAATCAC	GTGATTGTCTTCATCCTCCGTCGG
20	73	CCAGTTTGGCCCAATTCGCCAAAA	TTTTGGCGAATTGGGCCAAACTGG
Ì	74	GGATCTATTAGGCCGTGCGCACAG	CTGTGCGCACGGCCTAATAGATCC
	75	CGGATGTCACCGTTTGGACTTTCA	TGAAAGTCCAAACGGTGACATCCG
	76	ATCGCAAATCCTGCTCGTCCCTAA	TTAGGGACGAGCAGGATTTGCGAT
	77	CAGGGCATGCAATAATCGAGGTTC	GAACCTCGATTATTGCATGCCCTG
25	78	CATGCGTTGATATATGGGCCCAAG	CTTGGGCCCATATATCAACGCATG_
	79	CAGCTGCAGCTTGTGACCAACCAC	GTGGTTGGTCACAAGCTGCAGCTG
	80	TTGTATGTCTGCCGACCGGCGACC	GGTCGCCGGTCGGCAGACATACAA
	81	GATGGCGCCCGTTGATAGGTATGG	CCATACCTATCAACGGGCGCCATC
	82	ATGAGAATCGCCGGCAATCTGCTA	TAGCAGATTGCCGGCGATTCTCAT
30	83	ATTTGCACTGACCGCAGGCTCGTG	CACGAGCCTGCGGTCAGTGCAAAT
·	84	CAGGGAGAACGGTTAAGTTCCCGT	ACGGGAACTTAACCGTTCTCCCTG
	85	AGGCCGCCGATCGAGGAGTTTGGT	ACCAAACTCCTCGATCGCCGGCCT
	86	ACACGGTGGTCTCTGATAGCGACC	GGTCGCTATCAGAGACCACCGTGT
	87	GTGCAACGCCGAGGACTTCCATCA	TGATGGAAGTCCTCGGCGTTGCAC
35	88	TCGGTGCCTGATAGCCATTCCGAT	ATCGGAATGGCTATCAGGCACCGA
	. 89	TGAAATACCACACAGCCAATTGGC	GCCAATTGGCTGTGTGGTATTTCA
	90	GCATCGTGTACATGACTGCCGCGA	TCGCGGCAGTCATGTACACGATGC
	91	CAGTGTTCTAACGGCGCGCGTGAA	TTCACGCGCGCCGTTAGAACACTG
	92	CGCTTGCAACGTTGCACCTACTCT	AGAGTAGGTGCAACGTTGCAAGCG
40	93	CGAAAAACTAGTGGGCTCGCCGCG	CGCGGCGAGCCCACTAGTTTTCG
	94	CTTTCAGGGGAACTGCCGGAGTCG	CGACTCCGGCAGTTCCCCTGAAAG

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	95	TTGTGGCCTTCTTGTAAAGGCACG	CGTGCCTTTACAAGAAGGCCACAA
	96	TCCACGAACGGCGACCCGTTGTCT	AGACAACGGGTCGCCGTTCGTGGA
	97	CGACCTTGCACGAAACCTAACGAG	CTCGTTAGGTTTCGTGCAAGGTCG
	98	GTGCAGCTTCACGAGCCAGCCTGA	TCAGGCTGGCTCGTGAAGCTGCAC
5	99	CGCTTTCGTGCGAATAGACGATGA	TCATCGTCTATTCGCACGAAAGCG
	100	TGCGCTTACAGGCTCCTAGTGGTC	GACCACTAGGAGCCTGTAAGCGCA
	101	CACGCGCTTAGTCGCGATCGCATA	TATGCGATCGCGACTAAGCGCGTG
	102	CGGAGGGAGGAGCTAGCCTTCGA	TCGAAGGCTAGCTCCCTCCG
	103	GCATCCGGCCTGTTGATGACGCCT	AGGCGTCATCAACAGGCCGGATGC
10	104	AGGCCAATCGATCTTATTGCCGAG	CTCGGCAATAAGATCGATTGGCCT
[	105	CCTTCCAATGATTGCATACGCCCA	TGGGCGTATGCAATCATTGGAAGG
	106	AACACTTGATCAGGCGGGTCGTCT	AGACGACCCGCCTGATCAAGTGTT
	107	TGGAATCAAGGCCGTAAAGGACAG	CTGTCCTTTACGGCCTTGATTCCA
	108	GCTCCCGTAACCTGTCCACCAGTG	CACTGGTGGACAGGTTACGGGAGC
15	109	AGTGGTGAATGGCCGCTACCCTGA	TCAGGGTAGCGGCCATTCACCACT
	110	TGTTGAAGCGAGCTAAAACGGCCA	TGGCCGTTTTAGCTCGCTTCAACA
	111	CAGCGCTCCAGAATTGACAGCAAT	ATTGCTGTCAATTCTGGAGCGCTG
	2	TTCGAAGCGCACGTCCCTTTTCAA	TTGAAAAGGGACGTGCGCTTCGAA
	3	AACGCGTGGGGAATGGGACATCAA	TTGATGTCCCATTCCCCACGCGTT
20	114	CACGAGATACCGGCGTAAGGGTGG	CCACCCTTACGCCGGTATCTCGTG
	115	CTACGGCAAACGTGTGGAATGGGT	ACCCATTCCACACGTTTGCCGTAG
	116	GTAGGGCGATGACGGCGAACTAC	GTAGTTCGCCCGTCATCGCCCTAC
	117	AATCGACCTCCGCACACATTCGCA	TGCGAATGTGTGCGGAGGTCGATT
	118	GAGTCAGCATGGCGGCGGAGATTC	GAATCTCCGCCGCCATGCTGACTC
25	119	AGATAAAGACGCTGGCAACACGGG	CCCGTGTTGCCAGCGTCTTTATCT
	120	GGTACCTCAACGCGAACCACTTGT	ACAAGTGGTTCGCGTTGAGGTACC
	121	AAGCGATGGCTACCCAAGAGCGAT	ATCGCTCTTGGGTAGCCATCGCTT
	122	AGAGCTTATGCAGAACCAGGCGCC	GGCGCCTGGTTCTGCATAAGCTCT
Į.	123	ATCGGTCTCACGCAGGGTTGGATA	TATCCAACCCTGCGTGAGACCGAT
30	124	TAGGTTGCCCGCCAGAAGAACAT	ATGTTTCTTCTGGCGGGCAACCTA
	125	CGGTGCTGTTGCAAAAGCCTGTAG	CTACAGGCTTTTGCAACAGCACCG
Ĺ	126	TGATGAAAGTTTGCGGCAGGACAC	GTGTCCTGCCGCAAACTTTCATCA
	127	GTTGAGTGCAGGATGCAGCGATAG	CTATCGCTGCATCCTGCACTCAAC
	128	AACATTGCGCGGTCCACCAGGGTT	AACCCTGGTGGACCGCGCAATGTT
35	129	GGGCAGTTAGAGAGGGCCAGAAGT	ACTTCTGGCCCTCTCTAACTGCCC
Ĺ	130	TCGAGCTGGTCCCCGTGAACGTGT	ACACGTTCACGGGGACCAGCTCGA
[	131	GTCTTGGGGGCCGCTTAGTGAAAA	TTTTCACTAAGCGGCCCCCAAGAC
	132	ACTGTTGGCTTGCTCCATGTCCA	TGGACATGAGAGCAAGCCAACAGT
	133	AGGACCATTCGGAAGGCGAAGATA	TATCTTCGCCTTCCGAATGGTCCT
40 [	134	CTTGGGAGGCATCCGCTATAAGGA	TCCTTATAGCGGATGCCTCCCAAG
[	135	AATAAACGGAACGCACCGCTACAG	CTGTAGCGGTGCGTTCCGTTTATT
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ſ	136	TTGTACGTGCGGTCCCCATAAGCA	TGCTTATGGGGACCGCACGTACAA
İ	137	CGCACCAAACTGAGTTTCCCAGAC	GTCTGGGAAACTCAGTTTGGTGCG
Ì	138	ACCTGATCGTTCCCCTATTGGGAA	TTCCCAATAGGGGAACGATCAGGT
ľ	139	GGAACAGAGGCGAGGGGACTGAGC	GCTCAGTCCCCTCGCCTCTGTTCC
5	140	CCCTGCCTTGGCGTGTCGGCTTAT	ATAAGCCGACACGCCAAGGCAGGG
ľ	141	ACTCTGACACGCCAACTCCGGAAG	CTTCCGGAGTTGGCGTGTCAGAGT
	142	CTGACGGTTTTCATTCGGCGTGCC	GGCACGCCGAATGAAAACCGTCAG
Ì	143	TGCGGTGGTTCATTGGAGCTGGCC	GGCCAGCTCCAATGAACCACCGCA
	144	GCATGGCCAACTAGTGACTCGCAA	TTGCGAGTCACTAGTTGGCCATGC
10	145	AGGCCGTAAAGCGAATCTCACCTG	CAGGTGAGATTCGCTTTACGGCCT
	146	CGAATATTATGCCGAGAATCCGCG	CGCGGATTCTCGGCATAATATTCG
	147	ACAGACGAGCTCCCAACCACATGA	TCATGTGGTTGGGAGCTCGTCTGT
	148	GGACGGTTTGTGCTGGATTGTCTG	CAGACAATCCAGCACAAACCGTCC
	149	AAAGGCTATTGAGTTGGTTGGGCG	CGCCCAACCAACTCAATAGCCTTT
15	150	GATGGCCTATTCGGAGATCGGGCC	GGCCCGATCTCCGAATAGGCCATC
	151	GATCCAGTAGGCAGCTTCATCCCA	TGGGATGAAGCTGCCTACTGGATC
	152	AATAACTCGCGCGGGTATGCTTCT	AGAAGCATACCCGCGCGAGTTATT
	153	GGAGGAGGTTTGTCTCGGAAAGCA	TGCTTTCCGAGACAAACCTCCTCC
	154	CTTTGGTATGGCACATGCTGCCCG	CGGGCAGCATGTGCCATACCAAAG
20	155	AGAAAGGCTCGAGCAACGGGAACT	AGTTCCCGTTGCTCGAGCCTTTCT
	156	AATCTACCGCACTGGTCCGCAAGT	ACTTGCGGACCAGTGCGGTAGATT
	157	CGTGGCGGCCACAGTTTTTGGAGG	CCTCCAAAAACTGTGGCCGCCACG
	158	TTGCAGTTCAATCCATACGCACGT	ACGTGCGTATGGATTGAACTGCAA
	159	GGCCCAAAGCCCCAGACCATTTTA	TAAAATGGTCTGGGGCTTTGGGCC
25	160	CGCCTGTCTTTGTCTCCGGACAAT	ATTGTCCGGAGACAAGACAGGCG
	161	TGAGGCAACAGGGGCCAAAAACTA	TAGTTTTTGGCCCCTGTTGCCTCA
	162	AGCGGAAGTAGTCCTCGGCTCGTC	GACGAGCCGAGGACTACTTCCGCT
	163	GGCCCCAAGGCTTAGAGATAGTGG	CCACTATCTCTAAGCCTTGGGGCC
	164	GCACGTGAAGTTTAACCGCGATTC	GAATCGCGGTTAAACTTCACGTGC
30	<u>1</u> 65	AGCGGCAGAAACGTTCCTTGACGG	CCGTCAAGGAACGTTTCTGCCGCT
	166	TCGTCGAGCAGACGAGATTGCACG	CGTGCAATCTCGTCTGCTCGACGA
	167	TCTTTGCCGCGTAACTGACTGCTT	AAGCAGTCAGTTACGCGGCAAAGA
	168	TTTATGTGCCAAGGGGTTAACCGA	TCGGTTAACCCCTTGGCACATAAA
	169	TGTTACTGTGGTTCACGGCAGTCC	GGACTGCCGTGAACCACAGTAACA
35	170	CGCGCCTCGCTAGACCTTTTATTG	CAATAAAAGGTCTAGCGAGGCGCG
	171	ACAAATGCGTGAGAGCTCCCAACT	AGTTGGGAGCTCTCACGCATTTGT
	172	CGCGCAGATTATAGACCCGAATGT	ACATTCGGGTCTATAATCTGCGCG
	173	CAAATAACGCCGCTGAATCGGCGT	ACGCCGATTCAGCGGCGTTATTTG
	174	CCTTCGTGCATCGGTGATGATGTT	AACATCATCACCGATGCACGAAGG
40	175	TGAACACGAGCAACACTCCAACGC	GCGTTGGAGTGTTGCTCGTGTTCA
	176	CAGCAGATCCTTCGTAGCGGTCGT	ACGACCGCTACGAAGGATCTGCTG

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	177	GGAACCTGGTGAGTTGTGCCTCAT	ATGAGGCACAACTCACCAGGTTCC
	178	TCATAAGCGACAATCGCGGGCTTA	TAAGCCCGCGATTGTCGCTTATGA
	179	CCCAACGTCACTGAAGCTCACAGT	ACTGTGAGCTTCAGTGACGTTGGG
{	180	TGTCAGAGCCCGCGACTCAGACGG	CCGTCTGAGTCGCGGGCTCTGACA
5	181	TACACGAAGCCTCTCCGTGGTCCA	TGGACCACGGAGAGGCTTCGTGTA
	182	CTCAGAAGTCCTCGGCGAACTGGG	CCCAGTTCGCCGAGGACTTCTGAG
	183	ATCCTTTTATCTACTCCGCGGCGA	TCGCCGCGGAGTAGATAAAAGGAT
	184	AGGCGTGCAGCAACAGGATAAACC	GGTTTATCCTGTTGCTGCACGCCT
	185	ACTCTCGAGGGAGTCTCTGGCACA	TGTGCCAGAGACTCCCTCGAGAGT
10	186	TTGCCAGGTCCATCGAGACCTGTT	AACAGGTCTCGATGGACCTGGCAA
	187	TCCACTATAACTGCGGGTCCGTGT	ACACGGACCCGCAGTTATAGTGGA
	188	GCCCAGTCGGCTCTAACAAGTTCG	CGAACTTGTTAGAGCCGACTGGGC
	189	CGGAACGGATAATCGGCGTCAGGT	ACCTGACGCCGATTATCCGTTCCG
	190	TAAAATAAGCGCCTGGCGGAGGA	TCCTCCGCCAGGCGCTTATTTTA
15	191	GCGCACTCGTGAAACCTTTCTCGC	GCGAGAAAGGTTTCACGAGTGCGC
	192	AGTTTGCCAGGTACTGGCAAGTGC	GCACTTGCCAGTACCTGGCAAACT
	193	ACAACGAGGGATGTCCAGCGGCAT	ATGCCGCTGGACATCCCTCGTTGT
{	194	TTCGCAGCACCCGCTAGGTACAGT	ACTGTACCTAGCGGGTGCTGCGAA
	195	TAACCCGATTTTTGCGACTCTGCC	GGCAGAGTCGCAAAAATCGGGTTA
20	196	CGTCGCATTGCAAGCGTAGGCTTG	CAAGCCTACGCTTGCAATGCGACG
[	197	GAGCTGACGTCACCATCAGAGGAA	TTCCTCTGATGGTGACGTCAGCTC
	198	GGAGGCTGGGGGTCGCGCTTAAGT	ACTTAAGCGCGACCCCAGCCTCC
	199	TTGTGGGAACCGCACTAGCTGGCT	AGCCAGCTAGTGCGGTTCCCACAA
[	200	CCCTCGCACTGTGTTCACCCTCTT	AAGAGGGTGAACACAGTGCGAGGG
25	201	TCATTGACTCGAATCCGCACAACG	CGTTGTGCGGATTCGAGTCAATGA
	202	ACAGGGGTTGGCCTTCGTACGTAC	GTACGTACGAAGGCCAACCCCTGT
	203	AGGCCGTGCAACATCACACAGGAT	ATCCTGTGTGATGTTGCACGGCCT
	204	GGGCCGTGGTCACGTAATATTGGC	GCCAATATTACGTGACCACGGCCC
	205	GCGCGGACATGAAACGACAAGGCC	GGCCTTGTCGTTTCATGTCCGCGC
30	206	CTTATTGGGTGCCGGTGTCGGATT	AATCCGACACCGGCACCCAATAAG
	207	GGGGCGGTTACCAAAAAATCCGAT	ATCGGATTTTTTGGTAACCGCCCC
	4	CCGTCGCATACCGGCTACGATCAA	TTGATCGTAGCCGGTATGCGACGG
	5	ATGGCCGTGCTGGGGACAAGTCAA	TTGACTTGTCCCCAGCACGGCCAT
[	210	ACGAAAAAGTGTGCGGATCCCCT	AGGGGATCCGCACACTTTTTTCGT
35	211	CCAAGTACACCGCACGCATGTTTA	TAAACATGCGTGCGGTGTACTTGG
	212	ATCGTGCGTGGAGTGTCGCATCTA	TAGATGCGACACTCCACGCACGAT
	213	TCCAGATACCGCCCCGAACTTTGA	TCAAAGTTCGGGGCGGTATCTGGA
	214	TCTGCTGGCAGCACGTGAAGTGGC	GCCACTTCACGTGCTGCCAGCAGA
[	215	TTGAAATTGCTCTGCCGTCAGTCA	TGACTGACGGCAGAGCAATTTCAA
40	216	AGTCAGGCGAGATGTTCAGGCAGC	GCTGCCTGACATCTCGCCTGACT
	217	ACAAGCCGACGTTAAGCCCGCCCA	TGGGCGGCTTAACGTCGGCTTGT
		·	

[	218	CCCTAATGAGGCCAGTAACCTGCA	TGCAGGTTACTGGCCTCATTAGGG
-	219		CATTGGAGGGGATGTGTCTCAC
F	220	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	GACCACTGAACTCTGCATCCGTCG
-	221	CCCGCATGCCTGGCGGTATTACAA	TTGTAATACCGCCAGGCATGCGGG
5	222	TTAGCAAAGCGGCGCCGTTAGCAA	TTGCTAACGGCGCCGCTTTGCTAA
Ĭ	223	CCCGACACGGGTCAGCGTAATAAT	ATTATTACGCTGACCCGTGTCGGG
F	224		GACGACATACCTCAGGGCCGTCGC
<u> </u>	225	CAAAAGTGTGTTCCCTTGCGCTTG	CAAGCGCAAGGGAACACACTTTTG
<u> </u>	226	TCTCGAAGCACAGCCCGGTTATTG	CAATAACCGGGCTGTGCTTCGAGA
10	227	ATGCTAACCGTTGGCCATGGAACT	AGTTCCATGGCCAACGGTTAGCAT
Ī	228	CTTGCGGAGTGTTAGCCCAGCGGT	ACCGCTGGGCTAACACTCCGCAAG
ľ	229	TGCTCCCTAGGCGCTCGGAGGAGT	ACTCCTCCGAGCGCCTAGGGAGCA
	230	CCAATGCCTTTGAGTAAGCGATGG	CCATCGCTTACTCAAAGGCATTGG
Ţ	231	AGCAGATAACGTCCCAATGACGCC	GGCGTCATTGGGACGTTATCTGCT
15	232	TTGACCATTACGTGTTGCGCCCAT	ATGGGCGCAACACGTAATGGTCAA
	233	TCGCGTATTTGCGGAATTCGTCTG	CAGACGAATTCCGCAAATACGCGA
	234	CTGCGTGTCAACAATGTCCCGCAG	CTGCGGGACATTGTTGACACGCAG
	235	TCTGGTGCCACGCAAGGTCCACAG	CTGTGGACCTTGCGTGGCACCAGA
	236	CTCCGGGAGGTCACTTAATTGCGG	CCGCAATTAAGTGACCTCCCGGAG
20	237	TTTTCGTGATTGCCCGGAGGAGGC	GCCTCCTCCGGGCAATCACGAAAA
	238	TCGGGATGTAGCTGGGGCTACCGG	CCGGTAGCCCCAGCTACATCCCGA
	239	CGAGCCAACGCAAACACGTCCTTG	CAAGGACGTGTTTGCGTTGGCTCG
	240	GCAAAGCCTTTGTGGGGCGGTAGT	ACTACCGCCCCACAAAGGCTTTGC
	241	ATTCGACCGGAAATGAGGTCTTCG	CGAAGACCTCATTTCCGGTCGAAT
25	242	TTCGCTTGCTGAGTTGCTCTGTTC	GAACAGAGCAACTCAGCAAGCGAA
	243	CGCGTGAAGACCCCATTCCCGAGT	ACTCGGGAATGGGGTCTTCACGCG
	244	AACCGTATTCGCGGTCACTTGTGG	CCACAAGTGACCGCGAATACGGTT
	245	GGGGCCAACCGTTTCGAGGCGTAT	ATACGCCTCGAAACGGTTGGCCCC
	246	TTCGGCTGGCAGTCCAAACGGCTT	AAGCCGTTTGGACTGCCAGCCGAA
30	247	GGGTGTGGTTAGAATGCACGGTTC	GAACCGTGCATTCTAACCACACCC
	248	000.000.000	CCGTTTGTCTAGTTCGGTCCTCGC
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:	250	TAAAAGGTCGCTTTGAAAGGGGGA	TCCCCCTTTCAAAGCGACCTTTTA
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35	252	GGAGGTATAAGCGGAGCGGCCTCA	TGAGGCCGCTCCGCTTATACCTCC
	. 253	ATGCTGACATGTCGTGCACCTCGT	ACGAGGTGCACGACATGTCAGCAT
	254	TGTGGTTAAAGCGTCCGTTCAACG	CGTTGAACGGACGCTTTAACCACA
	255	CGTTCACACCGGCGTAAGCTGCGT	ACGCAGCTTACGCCGGTGTGAACG
	256	CCTATCCCGGCGAGAACTTCTGTG	CACAGAAGTTCTCGCCGGGATAGG
40	257	GTCTGCACTCACGCAGCGAGGGA	TCCCTCCGCTGCGTGAGTGCAGAC
	258	GCACGAGTTGGTGCTCGGCAGATT	AATCTGCCGAGCACCAACTCGTGC

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Ĺ	259	AACGTCGCACGACACGTTCGTC	GACGAACGTGTGTCGTGCGACGTT
	260	ATGCGCGCTTATCCTAGCATGGTC	GACCATGCTAGGATAAGCGCGCAT
[	261	TCACGTTTTCGTCTCGACATGAGG	CCTCATGTCGAGACGAAAACGTGA
ļ	262	TGTGCCTCATCCTTAGGATACGGC	GCCGTATCCTAAGGATGAGGCACA
5	263	AGGTGGTGTGGGTCAACCGCTTTA	TAAAGCGGTTGACCCACACCACCT
į	264	CTGGATCGAAGGGACTGCAAGCTC	GAGCTTGCAGTCCCTTCGATCCAG
	265	TAGATCAACTCGCGTACGCATGGA	TCCATGCGTACGCGAGTTGATCTA
	266	GATCCTGCGGAGAAGAGAGTGCAG	CTGCACTCTCTTCTCCGCAGGATC
	267	TACGTGTGGAGATGCCCCGAACCG	CGGTTCGGGGCATCTCCACACGTA
10	268	GCGCTATGTCAATCGTGGGCGTAG	CTACGCCCACGATTGACATAGCGC
	269	AGCGAGGTTTCTAGCGTCGACACC	GGTGTCGACGCTAGAAACCTCGCT
	270	ACCCAGGTTTTGCCGTTGTGGAAT	ATTCCACAACGGCAAAACCTGGGT
	271	CCCTGTTAACGGCTGCGTAGTCTC	GAGACTACGCAGCCGTTAACAGGG
	272	AGGCCGATTTCACCCGCCAATTGC	GCAATTGGCGGGTGAAATCGGCCT
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	274	GGGTGGACATCCGCCTCGCAGTCA	TGACTGCGAGGCGGATGTCCACCC
	275	GATGGCTGAGAACCGTGCTACGAT	ATCGTAGCACGGTTCTCAGCCATC
	276	TCGACGTTAGGAGTGCTGCCAGAA	TTCTGGCAGCACTCCTAACGTCGA
	277	CGAATGGGTCTGGACCTTGCATAG	CTATGCAAGGTCCAGACCCATTCG
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	279	AGAGGCCCCGTATATCCCATCCAT	ATGGATGGGATATACGGGGCCTCT
	280	AACGCCTGTTCAGAGCATCAGCGG	CCGCTGATGCTCTGAACAGGCGTT
	281	AAGGCTCAACACGCCTATGTGCGC	GCGCACATAGGCGTGTTGAGCCTT
	282	AGTCCGTGTTGCCAGATTGGCTCG	CGAGCCAATCTGGCAACACGGACT
25	283	ATGTCCCATGTAAAGACGCGTGTG	CACACGCGTCTTTACATGGGACAT
	284	ATGGAGTCTGCTCACGCCCAAAGG	CCTTTGGGCGTGAGCAGACTCCAT
	285	CGGCCTCCAACAAGGAGCACTAAC	GTTAGTGCTCCTTGTTGGAGGCCG
	286	CAGAGCCGTGGCAACATTGCGAGC	GCTCGCAATGTTGCCACGGCTCTG
	287	TCATTTGAATGAGGTGCGCACCGG	CCGGTGCGCACCTCATTCAAATGA
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	289	ATGCGAGCAATGGGATCCGGATTC	GAATCCGGATCCCATTGCTCGCAT
	290	AGAGTGAGGCCTCCCTGACCAGTG	CACTGGTCAGGGAGGCCTCACTCT
	291	CGCACCGTAAGTAGATTTGCCCGC	GCGGGCAAATCTACTTACGGTGCG
	292	TGAACCTTTGAGCACGTCGTGCGC	GCGCACGACGTGCTCAAAGGTTCA
<b>3</b> 5	293	TCCGCCTTTTTGGTTACCTCGAAG	CTTCGAGGTAACCAAAAAGGCGGA
	294	GAACGCCAACGGCACTAACACATC	GATGTGTTAGTGCCGTTGGCGTTC
	295	CCGACAGCAGCCAAGACGTCCCAG	CTGGGACGTCTTGGCTGCTGTCGG
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	299	GGGATGCGTATTTTAGCGAACACG	CGTGTTCGCTAAAATACGCATCCC
	:		

	300	TGGGATTCAGCGACCAGTACGCGA	TCGCGTACTGGTCGCTGAATCCCA
	301	CCCGATATTCGCCCGGCCTATTCG	CGAATAGGCCGGGCGAATATCGGG
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	7	CGCATAGGTTGCCGATTTCGTCAA	TTGACGAAATCGGCAACCTATGCG
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	321	AGCATTGGCGTTTTTCCGCAACGA	TCGTTGCGGAAAAACGCCAATGCT
	322	GGTAATATTCAGCGCGACCGCTCA	TGAGCGGTCGCGCTGAATATTACC
1	323	ATAGCGTACGACGAGGTGACGCGC	GCGCGTCACCTCGTCGTACGCTAT
25	324	TAGGTCACGATGCGTTTGACGCTA	TAGCGTCAAACGCATCGTGACCTA
	325	ACTGCCCGTACCTCTGGTTCTGGC	GCCAGAACCAGAGGTACGGGCAGT
	326	CCTTTGGCCTGAAGTTGTCGTAGC	GCTACGACAACTTCAGGCCAAAGG
	327	GTGCCCACGAGCGTATCGTTGTA	TACAACGATACGCTCGTGGGGCAC
	328	AGGCGCTACGTGGGCCTGGAGCAA	TTGCTCCAGGCCCACGTAGCGCCT
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	330	ACCACGCGCGTACGTGTAACCGAG	CTCGGTTACACGTACGCGCGTGGT
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	332	GGTCCGGCCCTACGAAACGTTCGA	TCGAACGTTTCGTAGGGCCGGACC
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	335	GGGTCAGTCAGGTGCGTTAGGATC	GATCCTAACGCACCTGACTGACCC
	336	GCCGTGAAGTCGAATGCAGATCGA	TCGATCTGCATTCGACTTCACGGC
•	337	GCCACCACCAGTGCATTCAGGTA	TACCTGAATGCACTGGGTGGTGGC
	338	GAGCTTAGTTTGCGGTCATCGGGC	GCCCGATGACCGCAAACTAAGCTC
40	339	TGTTTGCCGCCATTAGGGAGTAAC	GTTACTCCCTAATGGCGGCAAACA
	340	GCTCCGCTGGATGTGCCGGTTTAG	CTAAACCGGCACATCCAGCGGAGC

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	341	CGGTAGCATGCGAGATCCCTGTTA	TAACAGGGATCTCGCATGCTACCG
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	343	GTGCCTCCTGCTGTATTTGCCAAG	CTTGGCAAATACAGCAGGAGGCAC
	344	TTGCGACTCGACTTGGACGAGTAG	CTACTCGTCCAAGTCGAGTCGCAA
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·	346	TGCACGCGGAACTCCCTTTACCAT	ATGGTAAAGGGAGTTCCGCGTGCA
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	352	ATAGCGGAGTTTGGGTACGCGAAC	GTTCGCGTACCCAAACTCCGCTAT
	353	ACCTACGCATACCGCTTGGCGAGG	CCTCGCCAAGCGGTATGCGTAGGT
	354	GATTACCTGAATGGCCAAGCGAGC	GCTCGCTTGGCCATTCAGGTAATC
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	356	CGGAATGATGCGCTCGACAACGCT	AGCGTTGTCGAGCGCATCATTCCG
	357	TGAGAGAGGCGTTGGTTAAGGCAA	TTGCCTTAACCAACGCCTCTCTCA
	358	AAGCAGGCGAAGGGATACTCCTCG	CGAGGAGTATCCCTTCGCCTGCTT
	359	TCACGACAGACGGGCCGAGATTAC	GTAATCTCGGCCCGTCTGTCGTGA
20	360	AAGCAATTTGGCCTCGTTTTGTGA	TCACAAAACGAGGCCAAATTGCTT
	361	GCTGGTTGCGGTAGGATCGCATAT	ATATGCGATCCTACCGCAACCAGC
	362	TTGTGAATCCGTTCTGTCCCCGAC	GTCGGGACAGAACGGATTCACAA
	363	TGGGCTCCTCTGAGGCGAGATGGC	GCCATCTCGCCTCAGAGGAGCCCA
	364	GGATAGAGTGAATCGACCGGCAAC	GTTGCCGGTCGATTCACTCTATCC
25	365	TGCACCGAACGTGCACGAGTAATT	AATTACTCGTGCACGTTCGGTGCA
	366	GCCAGTATTCTCGGGTGTTGGACG	CGTCCAACACCCGAGAATACTGGC
	367	TCGCTACCTAAGACCGGGCCATAC	GTATGGCCCGGTCTTAGGTAGCGA
	368	TGGCATTGACGAGCAGCAGTCAGT	ACTGACTGCTGCTCAATGCCA
	369	CGCGTCCCAGCGCCCTTGGAGTAT	ATACTCCAAGGGCGCTGGGACGCG
30	370	ATGAAGCCTACCGGGCGACTTCGT	ACGAAGTCGCCCGGTAGGCTTCAT
	371	CCAGACAGATGGCCTGGAACCATG	CATGGTTCCAGGCCATCTGTCTGG
	372	TGGCGTGGGACCATCTCAAAGCTA	TAGCTTTGAGATGGTCCCACGCCA
	373	CCGCATGGGAACACGTGTCAAGGT	ACCTTGACACGTGTTCCCATGCGG
	374	GCCCACTCGTCAGCTGGACGTAAT	ATTACGTCCAGCTGACGAGTGGGC
35	375	ATTACGGTCGTGATCCAGAAAGCG	CGCTTTCTGGATCACGACCGTAAT
[	376	TGCGAGGTGAGCACCTACGAGAGA	TCTCTCGTAGGTGCTCACCTCGCA
	377	GGGCCGCATTCTTGATGTCCATTC	GAATGGACATCAAGAATGCGGCCC
[	378	CCTCGGATGTGGGCTCTCGCCTAG	CTAGGCGAGAGCCCACATCCGAGG
	379	TAGGCATGTTGGCGTGAGCGCTAT	ATAGCGCTCACGCCAACATGCCTA
40	380	CGATACGAACGAGGATGTCCGCCT	AGGCGGACATCCTCGTTCGTATCG
	381	TACGCCGGTTAGCACGGTGCGCTA	TAGCGCACCGTGCTAACCGGCGTA

<b>[</b>	382	CATACGATGTCCGGGCCGTGTCGC	GCGACACGGCCCGGACATCGTATG
Ţ	383	ATCCGCAGTTGTATGGCGCGTTAT	ATAACGCGCCATACAACTGCGGAT
	384	GGGTAAGGGACAAAGATGGGATGG	CCATCCCATCTTTGTCCCTTACCC
	385	ATTGGAGTGTTTTGGTGAATCCGC	GCGGATTCACCAAAACACTCCAAT
5	386	GAACCGAGCCAACGTATGGACACG	CGTGTCCATACGTTGGCTCGGTTC
	387	GCCGTCAAGCTTAAGGTTTTGGGC	GCCCAAAACCTTAAGCTTGACGGC
	388	ACCTGCTTTTGGGTGGGTGATATG	CATATCACCCACCCAAAAGCAGGT
	389	AATCGTGGGCGCAGCAAACGTATA	TATACGTTTGCTGCGCCCACGATT
	390	GTCGCCGGATTGCTCAGTATAAGC	GCTTATACTGAGCAATCCGGCGAC
10	391	ACCCGTCGATGCTTCCTCCTCAGA	TCTGAGGAGGAAGCATCGACGGGT
Ī	392	ATCCGGGTGGGCGATACAAGAGAT	ATCTCTTGTATCGCCCACCCGGAT
	393	TTCCGCATGAGTCAGCTTTGAAAA	TTTTCAAAGCTGACTCATGCGGAA
	394	GCAAAGTCCCACTGGCAAGCCGAT	ATCGGCTTGCCAGTGGGACTTTGC
	395	CGACCTCGGCTTCATCGTACACAT	ATGTGTACGATGAAGCCGAGGTCG
15	396	CTCATGAGCGCAGTTGTGCGTGAG	CTCACGCACAACTGCGCTCATGAG
	397	CAGATGAAGGATCCACGGCCGGAG	CTCCGGCCGTGGATCCTTCATCTG
	398	TCAAAGGCTCTTGGATACAGCCGT	ACGGCTGTATCCAAGAGCCTTTGA
	399	TCCGCTAATTTCCAATCAGGGCTC	GAGCCCTGATTGGAAATTAGCGGA
,	8	CCGTTTGCGGTCGTCCTTGCTCAA	TTGAGCAAGGACGACCGCAAACGG
20	9	TTCGCTTTCGTGGCTGCACTTCAA	TTGAAGTGCAGCCACGAAAGCGAA
	402	CTTAGTTGGGGCGCGGTATCCAGA	TCTGGATACCGCGCCCCAACTAAG
ĺ	403	GCTCTAATGCCGTGGAGTCGGAAC	GTTCCGACTCCACGGCATTAGAGC
ĺ	404	CCGATTACAAATTGACTGACCGCA	TGCGGTCAGTCAATTTGTAATCGG
	405	AGACGTACGTGAGCCTCCCGTGTC	GACACGGGAGGCTCACGTACGTCT
25	406	AATGGAGCGATACGATCCAACGCA	TGCGTTGGATCGTATCGCTCCATT
	· 407	GGAGGCGCTGTACTGATAGGCGTA	TACGCCTATCAGTACAGCGCCTCC
ļ	408	TGTTTTGAATTGACCACACGGGA	TCCCGTGTGGTCAATTCAAAAACA
	409	CATGTCTGGATGCGCTCAATGAAG	CTTCATTGAGCGCATCCAGACATG
	410	GCCCGCTAATCCGACACCCAGTTT	AAACTGGGTGTCGGATTAGCGGGC
30	411	CCATTGACAGGAGAGCCATGAGCC	GGCTCATGGCTCTCCTGTCAATGG
	412	GAATCACCGAATCACCGACTCGTT	AACGAGTCGGTGATTC
	413	AACCAGCCGCAGTAGCTTACGTCG	CGACGTAAGCTACTGCGGCTGGTT
	414	TTTTCTGAGGGACACGCGGGCGTT	AACGCCCGCGTGTCCCTCAGAAAA
	415	GGTGCTCCGTTTGATCGATCCTCC	GGAGGATCGATCAAACGGAGCACC
35	416	CCGCTTAGGCCATACTCTGAGCCA	TGGCTCAGAGTATGGCCTAAGCGG
	417	TAAGACATACCGACGCCCTTGCCT	AGGCAAGGGCGTCGGTATGTCTTA
	418	GTTCCCGACGCCAGTCATTGAGAC	GTCTCAATGACTGGCGTCGGGAAC
	419	TAAAAGTTTCGCGGAGGTCGGGCT	AGCCCGACCTCCGCGAAACTTTTA
	420	CGGTCCAGACGAGCTGAGTTCGGC	GCCGAACTCAGCTCGTCTGGACCG
40	421	CGGCGTAGCGGCTACGGACTTAAA	TTTAAGTCCGTAGCCGCTACGCCG
	422	GCTTGGATGCCCATGCGGCAAGGT	ACCTTGCCGCATGGGCATCCAAGC

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ſ	423	AGCGGGATCCCAGAGTTTCGAAAA	TTTTCGAAACTCTGGGATCCCGCT
. [	424	GAGCTTGAGAGCGAGGTCATCCTC	GAGGATGACCTCGCTCTCAAGCTC
Ī	425	GCATCGGCCGTTTTGACCATATTC	GAATATGGTCAAAACGGCCGATGC
Ì	426	CATAGCGCTGCACGTTTCGACCGC	GCGGTCGAAACGTGCAGCGCTATG
5	427	ACCGACAACCACCAATTCAAAAA	TTTTGAATTGGTGGTTGTCGGGT
Ī	428	GCGAACACTCATAAGAGCGCCCTG	CAGGGCGCTCTTATGAGTGTTCGC
İ	429	CCGCCGAGTGTAGAGAGACTCCGA	TCGGAGTCTCTCTACACTCGGCGG
ļ	430	GACATCGGGAGCCGGAAACATGAG	CTCATGTTTCCGGCTCCCGATGTC
ľ	431	TCGTGTAGACTCGGCGACAGGCGT	ACGCCTGTCGCCGAGTCTACACGA
10	432	ATGCGCATATACTGACTGCGCAGG	CCTGCGCAGTCAGTATATGCGCAT
	433	ACAAGCGAACCCGAGTTTTGATGA	TCATCAAAACTCGGGTTCGCTTGT
	434	GCATGAGACTCCGCGAAGACATGT	ACATGTCTTCGCGGAGTCTCATGC
	435	TCCTACATGTCGCGTCACGATCAC	GTGATCGTGACGCGACATGTAGGA
]	436	GACCGATCGCGAAGTCGTACACAT	ATGTGTACGACTTCGCGATCGGTC
15	437	GTCGCCAGGACTGGGCCGATGTGA	TCACATCGGCCCAGTCCTGGCGAC
	438	ACCGATAAGACTTGCATCCGAACG	CGTTCGGATGCAAGTCTTATCGGT
j	439	TCCATAACCAGTCCGAAGTGCCGG	CCGGCACTTCGGACTGGTTATGGA
	440	ACGCGCCCTGCATCTCGTATTTAA	TTAAATACGAGATGCAGGGCGCGT
	441	AGACCGCATCAATTGGCGCGTACC	GGTACGCGCCAATTGATGCGGTCT
20	442	AGAGGCTTGGCAAGTAGGGACCCT	AGGGTCCCTACTTGCCAAGCCTCT
	443	GCAATGGACGCCAGACGATACCGG	CCGGTATCGTCTGGCGTCCATTGC
	444	GCTGGACTTAGTCGTGTTCGGCGG	CCGCCGAACACGACTAAGTCCAGC
	445	AGGCATCGTGCCGGATTGCTCCCT	AGGGAGCAATCCGGCACGATGCÇT
	446	TGCGCATGTCGACGTTGAACAAAG	CTTTGTTCAACGTCGACATGCGCA
25	447	TTCGGGTCACATCCGATGCCATAC	GTATGGCATCGGATGTGACCCGAA
	448	ACCCATCGCCGGAAAGCGATGTTG	CAACATCGCTTTCCGGCGATGGGT
	449	AAGCGCTGACTCGGCTAAGAATCA	TGATTCTTAGCCGAGTCAGCGCTT
	450	ACTTCCAAGTCCTTGACCGTCCGA	TCGGACGGTCAAGGACTTGGAAGT
	451 .	TCTCAATATTCCCGTAGTCGCCCA	TGGGCGACTACGGGAATATTGAGA
30	452	AACAGTTCCTCTTTTTCCTGGCGC	GCGCCAGGAAAAAGAGGAACTGTT
	453	CGTCCTCCATGTTGTCACGAACAG	CTGTTCGTGACAACATGGAGGACG
	454	TGCGCAGACCTACCTGTCTTTGCT	AGCAAAGACAGGTAGGTCTGCGCA
	455	ATGGACGCTTCGCAGTCCTCCTT	AAGGAGGACTGCGAAGCCGTCCAT
•	456	TGAACGCTTTCTATGGGCCACGTA	TACGTGGCCCATAGAAAGCGTTCA
35	457	TGAACCCTGCCGCGAGCGATAACC	GGTTATCGCTCGCGGCAGGGTTCA
	458	GTTCTTGCGCGATGAATCAGGACC	GGTCCTGATTCATCGCGCAAGAAC
	459	AGGGTACGTGTCGCAGCTTCGCGT	ACGCGAAGCTGCGACACGTACCCT
	460	ACCCTTGCTCCGCCATGTCTCTCA	TGAGAGACATGGCGGAGCAAGGGT
	461	GGGACAAGGATTGAAGCTGGCGTC	GACGCCAGCTTCAATCCTTGTCCC
40	462	TGTCGTTGCTCCCGAGTACCATTG	CAATGGTACTCGGGAGCAACGACA
	463	GTTGTCCGAGACGTTTGTGTCAGC	GCTGACACAACGTCTCGGACAAC

Γ	464		GCTGGTGAACACTCACGAACCGCT	AGCGGTTCGTGAGTGTTCACCAGC
	465		GCAGACAGGGCAAATCGGTGCAAA	TTTGCACCGATTTGCCCTGTCTGC
	466		CCCATCACAACGAGTGGCGACTTT	AAAGTCGCCACTCGTTGTGATGGG
	467	Ţ	GCTTCTACAGCTGGCGTGCTAGCG	CGCTAGCACGCCAGCTGTAGAAGC
5	468		GAATGTGTGCCGACCATTCTAGCC	GGCTAGAATGGTCGGCACACATTC
	469		CCAGCGGAAGTTAGAGCTCTGTGG	CCACAGAGCTCTAACTTCCGCTGG
Ī	470		TTTTACCGACCACTCCATGTCGG	CCGACATGGAGTGGTCGGTAAAAA
	471		GCGGCTATGTGATGACGGCCTAGC	GCTAGGCCGTCATCACATAGCCGC
Ţ	472		AGTACACGGGCGTGTTAGCGCTCC	GGAGCGCTAACACGCCCGTGTACT
10	·473		TCCTGTGTGGTGGCGCACTCCCAC	GTGGGAGTGCGCCACCACACAGGA
Ī	474		CCAACTAACCAATCGCGCGGATGA	TCATCCGCGCGATTGGTTAGTTGG
	475		AGTGAGTGACCAAGGCAGGAGCAA	TTGCTCCTGCCTTGGTCACTCACT
Ì	476		CATCTTTCGCGGAGTTTATTGCGG	CCGCAATAAACTCCGCGAAAGATG
	477		CTTCGTCCGGTTAGTGCGACAGCA	TGCTGTCGCACTAACCGGACGAAG
15	478		CTCACGAAAACGTGGGCCCGAAAT	ATTTCGGGCCCACGTTTTCGTGAG
	479	一	CGCAGCAGCTGAACTCTAGCATTG	CAATGCTAGAGTTCAGCTGCTGCG
Ì	480		AGGAGACATACGCCCAAATGGTGC	GCACCATTTGGGCGTATGTCTCCT
	481		ATTGAGAACTCGTGCGGGAGTTTG	CAAACTCCCGCACGAGTTCTCAAT
ļ.	482		CTCTTTGTAGGCCCAGGAGGAGCA	TGCTCCTCGGGCCTACAAAGAG
20	483		GCCGCAGGGTCGATAATTGGTCTA	TAGACCAATTATCGACCCTGCGGC
Ì	484		AAACGCCGCCCTGAGACTATTGGG	CCCAATAGTCTCAGGGCGGCGTTT
Ì	485		CTGAGTTGCCTGGAACGTTGGACT	AGTCCAACGTTCCAGGCAACTCAG
	486		CGGATGGGTTGCAGAGTATGGGAT	ATCCCATACTCTGCAACCCATCCG
	487		CTGACCTTTGGGGGTTAGTGCGGT	ACCGCACTAACCCCCAAAGGTCAG
25	488		GGAAATGAGAACCTTACCCCAGCG	CGCTGGGGTAAGGTTCTCATTTCC
	489		AACGCATCGTCCGTCAACTCATCA	TGATGAGTTGACGGACGATGCGTT
	490		TGGAGAGAGACTTCGGCCATTGTT	AACAATGGCCGAAGTCTCTCCA
	491		TTGCGCTCATTGGATCTTGTCAGG	CCTGACAAGATCCAATGAGCGCAA
	492		AGCGCGTTAAAGCACGGCAACATT	AATGTTGCCGTGCTTTAACGCGCT
30	493		AGCCAGTAAACTGTGGGCGGCTGT	ACAGCCGCCCACAGTTTACTGGCT
	494		CGACTGATGTGCAACCAGCAGCTG	CAGCTGCTGGTTGCACATCAGTCG
	495		GGTTGCTCATACGACGAGCGAGTG	CACTCGCTCGTCGTATGAGCAACC
		10	GTCCAACGCGCAACTCCGATTCAA	TTGAATCGGAGTTGCGCGTTGGAC
		11	TTGCCGCACCGTCCGTCATCTCAA	TTGAGATGACGGACGGTGCGGCAA
35	498		AGAACCTCCGCGCCTCCGTAGTAG	CTACTACGGAGGCGCGGAGGTTCT
	499		AAAGGAGCTTTCGCCCAACGTACC	GGTACGTTGGGCGAAAGCTCCTTT
	500		AGTGATTGTGCCACTCCACAGCTC	GAGCTGTGGAGTGGCACAATCACT
	501		GCGATCGTCGAGGGTTGAGCTGAA	TTCAGCTCAACCCTCGACGATCGC
	502		GGGAGACAGCCATTATGGTCCTCG	CGAGGACCATAATGGCTGTCTCCC
40	503		GAGACGCTGTCACTCCGGCAGAAC	GTTCTGCCGGAGTGACAGCGTCTC
	504		CCACCGGTCGCTTAAGATGCACTT	AAGTGCATCTTAAGCGACCGGTGG

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	505	000071771001001010	GTCCCAGGACTGGACGTTATGCCG
ſ	506	AAGCGGAACGGGTTATACCGAGGT	ACCTCGGTATAACCCGTTCCGCTT
	507	TGCACACTAGGTCCGTCGCTTGAT	ATCAAGCGACGGACCTAGTGTGCA
	508	AGGGAACCGCGTTCAAACTCAGTT	AACTGAGTTTGAACGCGGTTCCCT
5	509	GAATTACAACCACCCGCTCGTGTT	AACACGAGCGGGTGGTTGTAATTC
	510	TTCAGTGCTCACGAAGCATGGATT	AATCCATGCTTCGTGAGCACTGAA
Ţ	511	TTAGTTTGGCGTTGGGACTTCACC	GGTGAAGTCCCAACGCCAAACTAA
Ī	512	AATGCGACCTCGACGAGCCTCATA	TATGAGGCTCGTCGAGGTCGCATT
Ī	513	CCGAAACCGTTAACGTGGCGCACA	TGTGCGCCACGTTAACGGTTTCGG
10	514	TAAAGTAACAAGGCGACCTCCCGC	GCGGGAGGTCGCCTTGTTACTTTA
ľ	515	TAATGATTTTAGTCGCGGGGTGGG	CCCACCCGCGACTAAAATCATTA
	516	GGCTACTCTAAGTGCCCGCTCAGG	CCTGAGCGGGCACTTAGAGTAGCC
	517	TGGCGGACGACTCAATATCTCACG	CGTGAGATATTGAGTCGTCCGCCA
	518	GGGCGTTAGGCGTAATAGACCGTC	GACGGTCTATTACGCCTAACGCCC
15	519	GCCACCTTTAGACGGCGGCTCTAG	CTAGAGCCGCCGTCTAAAGGTGGC
	520	GAGATGTGTAAACGTGCAGGCACC	GGTGCCTGCACGTTTACACATCTC
١.	521	TAGCTCGTGGCCCTCCAAGCGTGT	ACACGCTTGGAGGGCCACGAGCTA
	522	GTGTCGGCGCTATTTGGCCTTACC	GGTAAGGCCAAATAGCGCCGACAC
	523	CCAGGGAAGCAACTGGTTGCCATT	AATGGCAACCAGTTGCTTCCCTGG
20	524	TTCCGAAACTAAGCCAGAACCGCT	AGCGGTTCTGGCTTAGTTTCGGAA
	525	GCAAACCCGGTAACCCGAGAGTTC	GAACTCTCGGGTTACCGGGTTTGC
	526	GCAAATGGCGTCATGCACGAACGT	ACGTTCGTGCATGACGCCATTTGC
	527	AGTACTTTCGCGCCCAGTTTAGGG	CCCTAAACTGGGCGCGAAAGTACT
•	528	AAGATCTGCGAGGCATCCCGGCTT	AAGCCGGGATGCCTCGCAGATCTT
25	529	GCAAGTGTATCGCACAGTGCGATT	AATCGCACTGTGCGATACACTTGC
	530	CCGACAAGGCCTCAATTCATTCTG	CAGAATGAATTGAGGCCTTGTCGG
	531	GTCTCGTCTCAACTTTAAGGCGCG	CGCGCCTTAAAGTTGAGACGAGAC
	532	ATCCAGAGATCCGTTTTGCAGCGT	ACGCTGCAAAACGGATCTCTGGAT
	533	GTCACCAGGAGGGAAGTTTCACCC	GGGTGAAACTTCCCTCCTGGTGAC
30	534	TTCCGTCAGGCGGATCAACGGAAT	ATTCCGTTGATCCGCCTGACGGAA
	535	ATGCCGGACACGCATTACACAGGC	GCCTGTGTAATGCGTGTCCGGCAT
	536	TGGGCCGCTTGGCGCTTTCATAGA	TCTATGAAAGCGCCAAGCGGCCCA
	537	CCTAGCGCGAGCTTTACTGACCAG	CTGGTCAGTAAAGCTCGCGCTAGG
	538	TTGGCCAGGAATATGGTCTCGAGA	TCTCGAGACCATATTCCTGGCCAA
35	539	GTCTGCGGCCGACTTGCTATGCAT	ATGCATAGCAAGTCGGCCGCAGAC
	540	AACTTGCTCATTCTCAAGCCGACG	CGTCGGCTTGAGAATGAGCAAGTT
•	541	ACGTCAGCGATTGTGGCGAAATAT	ATATTTCGCCACAATCGCTGACGT
	542	ACGGCCTGCGTCAGCACATGCATC	GATGCATGTGCTGACGCAGGCCGT
	543	ATACCTCCGCAGAACCATTCCGTT	AACGGAATGGTTCTGCGGAGGTAT
40	544	AGTTCGCGGTCCCACGATTCACTT	AAGTGAATCGTGGGACCGCGAACT
, <del>-</del>	545	TGCTCAATTTGTGCAGAAAACGCC	GGCGTTTTCTGCACAAATTGAGCA

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I 540 I	TTATCGCGAGAGACGACCGTGTCC	GGACACGGTCGTCTCTCGCGATAA
		CGCTTCCACTACTCACGTCGCGTC
	GACGCGACGTGAGTAGTGGAAGCG	
	ATGGTAGGGCATTGGGCTTTCCT	AGGAAAGCCCAATGCCCCTACCAT
	CCAAATATAGCCGCGCGGAGACAT	ATGTCTCCGCGCGCGCTATATTTGG
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	TAGCGTCTTGCGTGAAACCATGGG	CCCATGGTTTCACGCAAGACGCTA
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	TGATCCCGGACCGGCTAGACTAAT	ATTAGTCTAGCCGGTCCGGGATCA
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557	GGCTCCAGGGCGAGATTATGAATG	CATTCATAATCTCGCCCTGGAGCC
558	CAAAATCCGATGGGCGGAAAATTA	TAATTTTCCGCCCATCGGATTTTG
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561	TGGTACGCGGTCCATAGCAAGTCG	CGACTTGCTATGGACCGCGTACCA
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570	TCTCAGTCGGACTCGTATGCCAGA	TCTGGCATACGAGTCCGACTGAGA
571	CTCCAAACGCACACATCAAGCATC	GATGCTTGATGTGTGCGTTTGGAG
572	TTCAACCAAGCGGGGTGTTCGTGA	TCACGAACACCCCGCTTGGTTGAA
573	GGTGTCGGAGGGTGGTGACCTCGA	TCGAGGTCACCACCCTCCGACACC
574	AGCGCTTTTGGTCATGATTTGCAA	TTGCAAATCATGACCAAAAGCGCT
575	CCGAGGACTTACGTCTGCCCAGGA	TCCTGGGCAGACGTAAGTCCTCGG
576	GCCCAATCCAGTTCTTATGCGCCC	GGGCGCATAAGAACTGGATTGGGC
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583	CAACATTGTGGTGGCACTCCATCC	GGATGGAGTGCCACCACAATGTTG
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585	GGCTATAAACGTGCGGACTGCTCC	GGAGCAGTCCGCACGTTTATAGCC
586	TGGGTAAATCACTATTGCGCGGTT	AACCGCGCAATAGTGATTTACCCA

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	587		GTCTTCATCGGCCCGCGCAAGCTA	TAGCTTGCGCGGGCCGATGAAGAC
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	589		GTAGCAGGGTCCGCAAGACCAAGC	GCTTGGTCTTGCGGACCCTGCTAC
	590		TCGCCAACGCAGGGTAACTGCCAT	ATGGCAGTTACCCTGCGTTGGCGA
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		12	CATCGTCCCTTTCGATGGGATCAA	TTGATCCCATCGAAAGGGACGATG
		13	GCACGGGAGCTGACGACGTGTCAA	TTGACACGTCGTCAGCTCCCGTGC
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	595		CGCTGGACTGGCCTATCCGAGTCG	CGACTCGGATAGGCCAGTCCAGCG
10	596		CGGTCTCAGCAACACTGTCGCAAA	TTTGCGACAGTGTTGCTGAGACCG
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	598		ATACCGTGCGACAAGCCCCTCTGA	TCAGAGGGGCTTGTCGCACGGTAT
	599		AGCTCATTCCCGAGACGGAACACC	GGTGTTCCGTCTCGGGAATGAGCT
	600		TTTCATGCGGCCGTTGCAAATCAT	ATGATTTGCAACGGCCGCATGAAA
15	601		ACTCGAACGGACGTTCAATTCCCA	TGGGAATTGAACGTCCGTTCGAGT
	602		CTGCATGGTGTGGGTGAGACTCCC	GGGAGTCTCACCCACACCATGCAG
	603		CCGCGAGTGTGGATGGCGTGTTGA	TCAACACGCCATCCACACTCGCGG
	604		AATGTGTCGGTCCTAAGCCGGGTG	CACCCGGCTTAGGACCGACACATT
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	607		TGCTCCATGTTAGGAACGCACCAC	GTGGTGCGTTCCTAACATGGAGCA
	608		CGGTGTTGGTCGGACTGACGACTG	CAGTCGTCAGTCCGACCAACACCG
	609		CCGCGCGTATCTATCAGATCTGGG	CCCAGATCTGATAGATACGCGCGG
	610		AAAGCATGCTCCACCTGGAGCGAG	CTCGCTCCAGGTGGAGCATGCTTT
25	611		ACTTGCATCGCTGGGTAGATCCGG	CCGGATCTACCCAGCGATGCAAGT
	612		TGCTTACGCAGTGGATTGGTCAGA	TCTGACCAATCCACTGCGTAAGCA
	613		ATGCAGATGAACAAATCGCCGAAT	ATTCGGCGATTTGTTCATCTGCAT
	614		GCAATTCTGGGCCATGTATTCGTC	GACGAATACATGGCCCAGAATTGC
	615		AGGGTTCCTTACGCGTCGACATGG	CCATGTCGACGCGTAAGGAACCCT
30	616		GTGGAGCTAATCGCGAGCCTCAGA	TCTGAGGCTCGCGATTAGCTCCAC
l	617		TCGTAGTCTCACCGGCAATGATCC	GGATCATTGCCGGTGAGACTACGA
	618		TTATAGCAGTGCGCCAATGCTTCG	CGAAGCATTGGCGCACTGCTATAA
Į	619		CGAACAGTGCTGTCCGTCGCTCAA	TTGAGCGACGGACAGCACTGTTCG
]	620		TCCGCGTGGACTGTTAGACGCTAT	ATAGCGTCTAACAGTCCACGCGGA
35	621		CATTAGCCCGCTGTCGGTAACTGT	ACAGTTACCGACAGCGGGCTAATG
[	622		GGAAAGAAACTCAGACGCGCAATG	CATTGCGCGTCTGAGTTTCTTTCC
	623		CGACTCGCTGGACAGGAGAATCGT	ACGATTCTCCTGTCCAGCGAGTCG
	624		CATGATCCTCTGTTTCACCCGCGG	CCGCGGTGAAACAGAGGATCATG
	625		GGCGTAGCGCTCTAAAAGCTTCGG	CCGAAGCTTTTAGAGCGCTACGCC
40	626		AGTGATGCCATCAGGCCCGTATAC	GTATACGGGCCTGATGGCATCACT
	627		TATGGAAAGGGCAACAGCGCTATC	GATAGCGCTGTTGCCCTTTCCATA
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	628	0101001101100	GTGTGGATCCTCCATCAACCACAG
[	629	ACTOCOTOCIVITIOGGETCHE	GTGTCAGCGCAAATTCCAGCGAGT
	630	0,100000,1100,100	CTGTAACCGCGTGGTTCGGGCCTG
	631	0000071110000001111101	TAGTATTTATGCGCCCATTGCGCC
5	632	GGTCAATTCGCGCTACATGCCCTA	TAGGGCATGTAGCGCGAATTGACC
<b></b>	633	GATGGTGGACTGGAGCCCTTCCGC	GCGGAAGGGCTCCAGTCCACCATC
	634	CCGCGCATAGCGCAATAGGGGAGA	TCTCCCCTATTGCGCTATGCGCGG
	635	TCTTCTGGCTGTCCGGCACCCGAA	TTCGGGTGCCGGACAGCCAGAAGA
	636	GCGTTCGCAATTCACGGGCCCTTA	TAAGGCCCGTGAATTGCGAACGC
10	637	TCGTTTCGGCCTTGGAGAGTATCG	CGATACTCTCCAAGGCCGAAACGA
	638	AGGTGCAAGTGCAAGGCGAGAGGC	GCCTCTCGCCTTGCACTTGCACCT
	639	CGCCAGTTTCGATGGCTGACGTTT	AAACGTCAGCCATCGAAACTGGCG
İ	640	GCTTTACCGCCGATCCCAGATATC	GATATCTGGGATCGGCGGTAAAGC
	641	GTGCTTGACGAAGAGGCGAAATGT	ACATTTCGCCTCTTCGTCAAGCAC
15	642	CAGTCCGTGCGCTTCATGTCCTCA	TGAGGACATGAAGCGCACGGACTG
ļ	643	TACGCGTAAGAGCCTACCCTCGCG	CGCGAGGGTAGGCTCTTACGCGTA
	644	GGCGAGTCTTGTGGGGACATGTGT	ACACATGTCCCCACAAGACTCGCC
	645	CCAAAGCGAAGCGAGCGTGTCTAT	ATAGACACGCTCGCTTCGCTTTGG
	646	GCCGTAGGTTGCTCTTCACCGAAC	GTTCGGTGAAGAGCAACCTACGGC
20	647	AAATCCGCGATGTGCCGTGAGGCT	AGCCTCACGGCACATCGCGGATTT
	648	GGCTTCGCACCCGTACCAATTTAG	CTAAATTGGTACGGGTGCGAAGCC
	649	TGTAGAGTCCCACGTAGCCGGCAT	ATGCCGGCTACGTGGGACTCTACA
	650	CACTAGTCTGGGGCAAGGTGCATT	AATGCACCTTGCCCCAGACTAGTG
	651	TGTACTCGGCAGGCGCAATAGATT	AATCTATTGCGCCTGCCGAGTACA
25	652	AACGGGTATCGGAAGCGTAAAAGC	GCTTTACGCTTCCGATACCCGTT
	653	CGGACTGCCCGTTTGCAAGTTGAG	CTCAACTTGCAAACGGGCAGTCCG
	654	ATCGTTCAGCACTGGAGCCCGTAA	TTACGGGCTCCAGTGCTGAACGAT
	655	ATGCATCGAACTAGTCGTGACGGC	GCCGTCACGACTAGTTCGATGCAT
	656	TTCCAGGCATTAAGGAGAGGGAGC	GCTCCCTCTCCTTAATGCCTGGAA
30	657	GTGCGACATCTACTCCACGATCCC	GGGATCGTGGAGTAGATGTCGCAC
	658	CTCATCGTCCTAACACGAGAGCCC	GGGCTCTCGTGTTAGGACGATGAG
	659	AATGGCACTTCGGCGGTGATGCAA	TTGCATCACCGCCGAAGTGCCATT
	660	CCGTGGGAGGGAATCCAACCGAGG	CCTCGGTTGGATTCCCTCCCACGG
	661	AAATTCTCGTTGGTGACGGCTCAT	ATGAGCCGTCACCAACGAGAATTT
35	662	TTGCTCTTATCCTTGTCCTGGGCG	CGCCCAGGACAAGGATAAGAGCAA
	. 663	TTAAGGATCAGGCGGAGCTTGCAG	CTGCAAGCTCCGCCTGATCCTTAA
	664	CGCGACTAAGGTGCTGCAACTCGA	TCGAGTTGCAGCACCTTAGTCGCG
	665	GCTCGATTTCACGGCCCGTTGTTC	GAACAACGGGCCGTGAAATCGAGC
	666	AGCAGAGTGCGTTGCAGAGGCTAA	TTAGCCTCTGCAACGCACTCTGCT
40	667	TGGAGGTGAGGACGTGCACTA	TAGTGCACGTCGTCCTCACCTCCA
	668	AACCGTTTAGGGTACATTCGCGGT	ACCGCGAATGTACCCTAAACGGTT

				<u> </u>
ſ	669		TATGATCGCTCGGCTCACAGTTTG	CAAACTGTGAGCCGAGCGATCATA
	670		GACTTTTTGCGGAAACGTCATGGT	ACCATGACGTTTCCGCAAAAAGTC
	671		TGTCGGTTATTCCACCTGCAAGGA	TCCTTGCAGGTGGAATAACCGACA
	672		CTATGGTTTGCACTGCGCCGTCGA	TCGACGCCCAGTGCAAACCATAG
5	673		AGCAGGGAAATTCAATCGTTCGCA	TGCGAACGATTGAATTTCCCTGCT
	674		CCTAACCGAGCGCTTAGCATTTCC	GGAAATGCTAAGCGCTCGGTTAGG
1	675		CCCGACCCTAACTCGCATTGAATA	TATTCAATGCGAGTTAGGGTCGGG
Ì	676	$\neg$	TTGCTTAATGGTGACGCCACGGAT	ATCCGTGGCGTCACCATTAAGCAA
	677		GATGCTCGCCGTGTTTAGTTCACG	CGTGAACTAAACACGGCGAGCATC
10	678		TCGGATGACGAGTTTCCATGACGG	CCGTCATGGAAACTCGTCATCCGA
	679		ATGCGGTCTACTTTCTCGATCGGG	CCCGATCGAGAAAGTAGACCGCAT
	680	$\Box$	TTGCGAGGCTAAGCACACGGTAAA	TTTACCGTGTGCTTAGCCTCGCAA
	681		AACTTAATTACCGCCTCTGGCGCC	GGCGCCAGAGGCGGTAATTAAGTT
	682		GTGACCGCGAACTTGTTCCGACAG	CTGTCGGAACAAGTTCGCGGTCAC
15	683		TGCGGATTACCGATTCGCTCTTAA	TTAAGAGCGAATCGGTAATCCGCA
	684		TGATAGGGGGCCACGTTGATCAGA	TCTGATCAACGTGGCCCCCTATCA
	685		TCGCTCCGTAGCGATTCATCGTAG	CTACGATGAATCGCTACGGAGCGA
	686		TGTCAGCTGGTAGCCTCCGTTTGA	TCAAACGGAGGCTACCAGCTGACA
	687		AGCGTCGCATGACGCTTACGGCAC	GTGCCGTAAGCGTCATGCGACGCT
20 '		14	AGACGCACCGCAACAGGCTGTCAA	TTGACAGCCTGTTGCGGTGCGTCT
	-	15	CGTGTAGGGGTCCCGTGCTGTCAA	TTGACAGCACGGGACCCCTACACG
	690		GTCGCATTCTGCACTGGCTTCGCC	GGCGAAGCCAGTGCAGAATGCGAC
	691		TGATTAGGTGCGGTCCCGTAGTCC	GGACTACGGGACCGCACCTAATCA
	692		AAGGGACCTTGGGTGACGGCGAGA	TCTCGCCGTCACCCAAGGTCCCTT
25	693		TCAAATGGCCACCGCGTGTCATTC	GAATGACACGCGGTGGCCATTTGA
	694		CTCCGACGACCAATAAATAGCCGC	GCGGCTATTTATTGGTCGTCGGAG
	695		GGCTATTCCCGTAGAGAGCGTCCA	TGGACGCTCTCTACGGGAATAGCC
	696		TGGATAACCTCTCGGTCCATCCAC	GTGGATGGACCGAGAGGTTATCCA
	697		GACCGCTGTACGGGAGTGTGCCTT	AAGGCACACTCCCGTACAGCGGTC
30	698		GCCACAGAGTTTTAGCAGGGACCC	GGGTCCCTGCTAAAACTCTGTGGC
	699		CCCACGCTTTCCGACCACTGACCT	AGGTCAGTGGTCGGAAAGCGTGGG
	700		CATTGACACAATGCGGGGACTGAT	ATCAGTCCCCGCATTGTGTCAATG
	701		AGCCACTCGACAGGGTTCCAAAGC	GCTTTGGAACCCTGTCGAGTGGCT
	702		CAGGATGAGCAAAGCGACTCTCCA	TGGAGAGTCGCTTTGCTCATCCTG
35	703		CAAGGTATGGTCTGGGGCCTAAGC	GCTTAGGCCCCAGACCATACCTTG
	704		GGTGTTCGGCCTAAACTCTTTCGG	CCGAAAGAGTTTAGGCCGAACACC
	705		TTTAGTCGGACCCTGTGGCAATTC	GAATTGCCACAGGGTCCGACTAAA
	706		CACACGTTTCCGACCAGCCTGAAC	GTTCAGGCTGGTCGGAAACGTGTG
	707		CTGGACGAACTGGCTTCCTCGTAC	GTACGAGGAAGCCAGTTCGTCCAG
40	708		TTCACAATCCGCCGAAAACTGACC	GGTCAGTTTTCGGCGGATTGTGAA
	709		AACAGGATATCCGCGATCACGACA	TGTCGTGATCGCGGATATCCTGTT

	710	TACGTCGGATCCATTGCGCCGAGT	ACTCGGCGCAATGGATCCGACGTA
	711	CATGGATCTCTCGGTTTGATCGCC	GGCGATCAAACCGAGAGATCCATG
	712	AGCCAGGCGCGTATATACGCTCGG	CCGAGCGTATATACGCGCCTGGCT
	713	ATTTGGCACGTGTCGTGCCATGTT	AACATGGCACGACACGTGCCAAAT
5	714	CCGCGTTGCACCACTTTGAGGTGC	GCACCTCAAAGTGGTGCAACGCGG
	715	TTGGACGTGACAAGCATGGCGCTC	GAGCGCCATGCTTGTCACGTCCAA
	716	CTGAATCGCGCAAGTAAATGGGGG	CCCCATTTACTTGCGCGATTCAG
	717	GATAAGGTCCACCAGATTGCGCGC	GCGCGCAATCTGGTGGACCTTATC
	718	CTAACAATTGCCAACCGGGACGGC	GCCGTCCCGGTTGGCAATTGTTAG
10	719	GGTAACCTGGGTGCTTGCAGGTTA	TAACCTGCAAGCACCCAGGTTACC
	720	ATCGGAGCCACCATTCGCATTGGG	CCCAATGCGAATGGTGGCTCCGAT
	721	GTGAACTGGCTTGCCCCAGGATTA	TAATCCTGGGGCAAGCCAGTTCAC
	722	AGGCGATAGCATGGTCCCATATGA	TCATATGGGACCATGCTATCGCCT
	723	AACGGTATCGTGGCTAATGCACGA	TCGTGCATTAGCCACGATACCGTT
15	724	AGTAGTGGTCCTCCAGATCGGCAA	TTGCCGATCTGGAGGACCACTACT
	725	CCGTTGAATTGGACGGGAGGTTAG	CTAACCTCCCGTCCAATTCAACGG
	726	GCATAAGTGCGGCATCGCGAAGGG	CCCTTCGCGATGCCGCACTTATGC
	727	CGACAAGATGCAGCTGCTACATGC	GCATGTAGCAGCTGCATCTTGTCG
	728	TCGCAGTGATTCCCGACCGATAAG	CTTATCGGTCGGGAATCACTGCGA
20	729	CAAGGCGAGTCCACTCGAGGGGAC	GTCCCTCGAGTGGACTCGCCTTG
	730	GCAACTTGCACGGCATAAGTGGCC	GGCCACTTATGCCGTGCAAGTTGC
	731	TCCGAGCTTGACGTTCGCGACGTC	GACGTCGCGAACGTCAAGCTCGGA
1	732	AGCGCTGGGCTGTGCCATCTC	GAGATGGCAGCACAGCCCAGCGCT
	733	TTCATGTCGCTGAGTAACCCTCGC	GCGAGGGTTACTCAGCGACATGAA
25	734	CGAACCGCTAATGCCCATTGTCAG	CTGACAATGGGCATTAGCGGTTCG
	735	CACGGAAGGTGGGACAAATCGCCG	CGGCGATTTGTCCCACCTTCCGTG
	736	CACAGATGGAGACAAACGCGCCTT	AAGGCGCGTTTGTCTCCATCTGTG
	737	TTTTCGCAACTCGCTCCATAACCC	GGGTTATGGAGCGAGTTGCGAAAA
	· 738	ACGTTACGTTTCCGGCGCCTCTAA	TTAGAGGCGCCGGAAACGTAACGT
30	739	TATCGGATTGCGTGGGTTTCAATC	GATTGAAACCCACGCAATCCGATA
	740	CTTCCACAATTGTCTGCGACGCAC	GTGCGTCGCAGACAATTGTGGAAG
	741	TGCACAAAGGTATGGCTGTCCGGC	GCCGGACAGCCATACCTTTGTGCA
	742	TCCGATGCCAGTCCCATCTTAAGA	TCTTAAGATGGGACTGGCATCGGA
	743	CTGAAACCGTGCGAATCGAGGTGA	TCACCTCGATTCGCACGGTTTCAG
35	744	CGGTGTTCCGCGTGTCGAAAAAAT	ATTTTTCGACACGCGGAACACCG
	745	TCTAGCAGGCCTTTTGAATCGCCA	TGGCGATTCAAAAGGCCTGCTAGA
	746	GAGTCACCTCTGAGACGGACGCCA	TGGCGTCCGTCTCAGAGGTGACTC
	747	TCTTCTGTCATCCTGCAGCAGCAT	ATGCTGCTGCAGGATGACAGAAGA
	748	GCGGATGAAACCTGAAAGGGGCCT	AGGCCCCTTTCAGGTTTCATCCGC
40	749	GGGGCCCAAACTGGTATCAAGCC	GGCTTGATACCAGTTTGGGGCCCC
	750	GCATTGGCTTCGGATTCTCCTACA	TGTAGGAGAATCCGAAGCCAATGC

751	AGGCGGCCCAACTGTGAGGTCTTG	CAAGACCTCACAGTTGGGCCGCCT
752	ACACCATGTGCTCCGCGCTGCAGT	ACTGCAGCGCGGAGCACATGGTGT
753	ACGATGAACATGAATCGGGAGTCG	CGACTCCCGATTCATGTTCATCGT
754	CTGCATCCCTGTAGCAGCGCTCCG	CGGAGCGCTGCTACAGGGATGCAG
755	GTGCCGTATTTCGACCTGTGCGTT	AACGCACAGGTCGAAATACGGCAC
756	GCAGTGCGCACTTCAGTTCAAAAG	CTTTTGAACTGAAGTGCGCACTGC
757	GCGATTTTAAGCGATGCCTTGACG	CGTCAAGGCATCGCTTAAAATCGC
758	TAGGTGACCTAGGCTTGCTTGCGG	CCGCAAGCAAGCCTAGGTCACCTA
759	CTGGATACCTTGCCTGTGCGGCGC	GCGCCGCACAGGCAAGGTATCCAG
760	CCCCTTACGGCTCGTCGTCTATGC	GCATAGACGACGAGCCGTAAGGGG
761	GCGCTTGCCCGATGCGATGCATTA	TAATGCATCGCATCGGGCAAGCGC
762	TTTCTGTAAGCGGCCTGGGGTTCA	TGAACCCCAGGCCGCTTACAGAAA
763	GGCTGAGGTGAGCGGTAAGGATGA	TCATCCTTACCGCTCACCTCAGCC
764	TCTTGGCCTCCCCGATCTAATTTG	CAAATTAGATCGGGGAGGCCAAGA
765	GGAGGTAACGCCGTGTACGTAGGA	TCCTACGTACACGGCGTTACCTCC
766	GTAATCCATTTGTGGCTGCGTCAA	TTGACGCAGCCACAAATGGATTAC
767	CAAACCCATTCCAGCAGACGCCTG	CAGGCGTCTGCTGGAATGGGTTTG
768	TAGGAGGAATTTGGCATGCGGGCG	CGCCCGCATGCCAAATTCCTCCTA
769	ATAGGTAGGATGTGCCCGGCGTTG	CAACGCCGGGCACATCCTACCTAT
770	GCAAGTGCTTAGCTCGTCAGCCTC	GAGGCTGACGAGCTAAGCACTTGC
771	CTGGCTGTGTCGCATCTCGTTAAC	GTTAACGAGATGCGACACAGCCAG
772	CTAACGTCGTCTCGCGCAATCACT	AGTGATTGCGCGAGACGACGTTAG
773	TTTTCATAAACGTTGTCCCCGAGC	GCTCGGGGACAACGTTTATGAAAA
774	AGCAGGAGGACGAACCTCCGCTCC	GGAGCGGAGGTTCGTCCTCCTGCT
775	TTCAAGCACCATCGTGCAATCCAA	TTGGATTGCACGATGGTGCTTGAA
776	AGCGTCGCCAGTGATCGCTAGTGG	CCACTAGCGATCACTGGCGACGCT
777	TACATTCCCTGCCTCCGTGGGCTT	AAGCCCACGGAGGCAGGGAATGTA
778	CGCTTCGCGTATTCAGTAGCGGTT	AACCGCTACTGAATACGCGAAGCG
779	TCGGACGCGTCGACACTCATTATA	TATAATGAGTGTCGACGCGTCCGA
780	TCTGAGCAGGCCAGCTCCAGCT	AGCTGGAGCGCTGGCTCAGA
781	TTGAATTGCCAAGCCCTGAAAGCC	GGCTTTCAGGGCTTGGCAATTCAA
782	AGTTTTCGCCTTGATGCGTCGGTG	CACCGACGCATCAAGGCGAAAACT
783	GTTTCATAGGCCACGCGTGCTAAA	TTTAGCACGCGTGGCCTATGAAAC
16	CATCGCTGCAAGTACCGCACTCAA	TTGAGTGCGGTACTTGCAGCGATG

TABLE 4

	Seq. ID No.	Decod r Sequence (5'-3') + 5' T	Probe Sequence (5'-3') + 5' T
	17	TTTCGCCGTCGTGTAGGCTTTTCAA	TTTGAAAAGCCTACACGACGGCGAA
	18	TGTTCCCAGTGAAGCTGCGATCTGG	TCCAGATCGCAGCTTCACTGGGAAC
5	19	TTACTTGGCATGGAATCCCTTACGC	TGCGTAAGGGATTCCATGCCAAGTA
	20	TACTAGCATATTTCAGGGCACCGGC	TGCCGGTGCCCTGAAATATGCTAGT
	21	TGAACGGTCAATGAACCCGCTGTGA	TTCACAGCGGGTTCATTGACCGTTC
	22	TGCGGCCTTGGTTCAATATGAATCG	TCGATTCATATTGAACCAAGGCCGC
	23	TGATCGTTAGAGGGACCTTGCCCGA	TTCGGGCAAGGTCCCTCTAACGATC
10	24	TTGGACCTAGTCCGGCAGTGACGAA	TTTCGTCACTGCCGGACTAGGTCCA
	25	TATAAACTACCCAGGACGGGCGGAA	TTTCCGCCCGTCCTGGGTAGTTTAT
	26	TCATCGGTTCGCGCCAATCCAGATA	TTATCTGGATTGGCGCGAACCGATG
	27	TGTCGGGCATAGAGCCGACCACCCT	TAGGGTGGTCGGCTCTATGCCCGAC
	28	TCTTGGGTCATGATTCACCGTGCTA	TTAGCACGGTGAATCATGACCCAAG
15	29	TTGCCTAACGTGCTAATCAGCAGCG	TCGCTGCTGATTAGCACGTTAGGCA
	30	TCGCATGTTGGAGCATATGCCCTGA	TTCAGGGCATATGCTCCAACATGCG
	31	TAGCCACTGCATCAGTGCTGTTCAA	TTTGAACAGCACTGATGCAGTGGCT
	32	TGGTTGTTTTGAGGCGTCCCACACT	TAGTGTGGGACGCCTCAAAACAACC
	33	TTCGACCAAGAGCAAGGGCGGACCA	TTGGTCCGCCCTTGCTCTTGGTCGA
20	34	TGACATCGCTATTGCGCATGGATCA	TTGATCCATGCGCAATAGCGATGTC
	35	TGAAATACGAAGTCTGCGGGAGTCG	TCGACTCCCGCAGACTTCGTATTTC
	36	TTGTCATGAATGATTGATCGCGCGA	TTCGCGCGATCAATCATTCATGACA
	37	TATATCGGGATTCGTTCCCGGTGAA	TTTCACCGGGAACGAATCCCGATAT
	38	TGCGAGCGTACCGAAGGGCCTAGAA	TTTCTAGGCCCTTCGGTACGCTCGC
25	39	TTTACCGGCAGCGGACTTCCGAATT	TAATTCGGAAGTCCGCTGCCGGTAA
	40	TGTAATCGAGAGCTGCGCGCCGTCT	TAGACGGCGCGCAGCTCTCGATTAC
	41	TCCTGTTAGCGTAGGCGAGTCGATC	TGATCGACTCGCCTACGCTAACAGG
	42	TTAGCGGACCGGCAGAATGAGTTCC	TGGAACTCATTCTGCCGGTCCGCTA
	43	TGGTACATGCACTACGCGCACTCGG	TCCGAGTGCGCGTAGTGCATGTACC
30	44	TAATTCATCTCGGACTCCCGCGGTA	TTACCGCGGGAGTCCGAGATGAATT
	45	TGCCAAATCTGGATTGGCAGGAATG	TCATTCCTGCCAATCCAGATTTGGC
	46	TTGCATTTTCGGTTGAGGCACATCC	TGGATGTGCCTCAACCGAAAATGCA
	47	TCCGCTCAATTCACCATGCTTCGCT	TAGCGAAGCATGGTGAATTGAGCGG
	48	TCTCGGAAAGGTGCAACTTTGGTGT	TACACCAAAGTTGCACCTTTCCGAG
35	49	TAATTCGACCAGCAGAACGTCCCAT	TATGGGACGTTCTGCTGGTCGAATT
	50	TGCCAGAGTCTCAACCTCACGGGAT	TATCCCGTGAGGTTGAGACTCTGGC
	51	TCCAACAACTGGAACGGGAACCCGC	TGCGGGTTCCCGTTCCAGTTGTTGG
•	52	TGAGAACTGATCGCTGAGGGGCATG	TCATGCCCCTCAGCGATCAGTTCTC
	53	TGGCACACTAGACTTGTGGCACCGA	TTCGGTGCCACAAGTCTAGTGTGCC
			•

Γ	54	TTCACATCCAAATATGGTCCGCGAA	TITCGCGGACCATATTTGGATGTGA
<u> </u>	55	TGTCTGCCGGTGTGACCGCTTCATT	TAATGAAGCGGTCACACCGGCAGAC
-	56	TCATCGCAGAGCATAAACACCCTCA	TTGAGGGTGTTTATGCTCTGCGATG
}	57	TGTTGGTATCTATGGCAGAGGCGGA	TTCCGCCTCTGCCATAGATACCAAC
5	58	TACGAGGTGCCGCTGAGGTTCCATT	TAATGGAACCTCAGCGGCACCTCGT
ř	59	TGGAATGAGTGGACCCAGGCACATT	TAATGTGCCTGGGTCCACTCATTCC
	60	TTGTCAATATGCGTCCGTGTCGTCT	TAGACGACACGGACGCATATTGACA
}	61	TTGATGAGCCTCAGGGTACGAGGCA	TTGCCTCGTACCCTGAGGCTCATCA
	62	TCACCGCGGTGTTCCTACAGAATGA	TTCATTCTGTAGGAACACCGCGGTG
10	63	TTTGTTGCCAATGGTGTCCGCTCGG	TCCGAGCGGACACCATTGGCAACAA
"	64	TTTAACCTGCGTCTGCCCCTTTCCT	TAGGAAAGGGCAGACGCAGGTTAA
ļ.	65	TAGGCGCGTTCCTGCCTTAGTGACG	TCGTCACTAAGGCAGGAACGCGCCT
ľ	66	TTAGGGCGATGGCACGAAGCTTCAA	TTTGAAGCTTCGTGCCATCGCCCTA
<b>-</b>	67	TTGCATAGAGCCAAAGTCGGCGATG	TCATCGCCGACTTTGGCTCTATGCA
15	68	TTTGAGAGGCAGGTGGCCACACGGA	TTCCGTGTGGCCACCTGCCTCTCAA
· ·	69	TTCCGCATTGTGAGAAAAAACGAGC	TGCTCGTTTTTTCTCACAATGCGGA
ŀ	70	TGGCGGTTTCCGTAGCTATAGGTGC	TGCACCTATAGCTACGGAAACCGCC
Ì	71	TGGTGAAAATTTCGTAGCCACGGGC	TGCCCGTGGCTACGAAATTTTCACC
}	72	TCCGACGGAGGATGAAGACAATCAC	TGTGATTGTCTTCATCCTCCGTCGG
20	73	TCCAGTTTGGCCCAATTCGCCAAAA	TTTTTGGCGAATTGGGCCAAACTGG
Ţ.	74	TGGATCTATTAGGCCGTGCGCACAG	TCTGTGCGCACGGCCTAATAGATCC
	75	TCGGATGTCACCGTTTGGACTTTCA	TTGAAAGTCCAAACGGTGACATCCG
j	76	TATCGCAAATCCTGCTCGTCCCTAA	TTTAGGGACGAGCAGGATTTGCGAT
	77	TCAGGGCATGCAATAATCGAGGTTC	TGAACCTCGATTATTGCATGCCCTG
25	78	TCATGCGTTGATATATGGGCCCAAG	TCTTGGGCCCATATATCAACGCATG
	79	TCAGCTGCAGCTTGTGACCAACCAC	TGTGGTTGGTCACAAGCTGCAGCTG
	80	TTTGTATGTCTGCCGACCGGCGACC	TGGTCGCCGGTCGGCAGACATACAA
	81	TGATGGCGCCCGTTGATAGGTATGG	TCCATACCTATCAACGGGCGCCATC
[	82	TATGAGAATCGCCGGCAATCTGCTA	TTAGCAGATTGCCGGCGATTCTCAT
30	83	TATTTGCACTGACCGCAGGCTCGTG	TCACGAGCCTGCGGTCAGTGCAAAT
	84	TCAGGGAGAACGGTTAAGTTCCCGT	TACGGGAACTTAACCGTTCTCCCTG
	85	TAGGCCGGCGATCGAGGAGTTTGGT	TACCAAACTCCTCGATCGCCGGCCT
	86	TACACGGTGGTCTCTGATAGCGACC	TGGTCGCTATCAGAGACCACCGTGT
	87	TGTGCAACGCCGAGGACTTCCATCA	TTGATGGAAGTCCTCGGCGTTGCAC
<b>35</b> .	88	TTCGGTGCCTGATAGCCATTCCGAT	TATCGGAATGGCTATCAGGCACCGA
	89	TTGAAATACCACACAGCCAATTGGC	TGCCAATTGGCTGTGTGGTATTTCA
	90	TGCATCGTGTACATGACTGCCGCGA	TTCGCGGCAGTCATGTACACGATGC
	91	TCAGTGTTCTAACGGCGCGCGTGAA	TTTCACGCGCGCGTTAGAACACTG
	92	TCGCTTGCAACGTTGCACCTACTCT	TAGAGTAGGTGCAACGTTGCAAGCG
40	93	TCGAAAAACTAGTGGGCTCGCCGCG	TCGCGGCGAGCCCACTAGTTTTTCG
	94	TCTTTCAGGGGAACTGCCGGAGTCG	TCGACTCCGGCAGTTCCCCTGAAAG

Γ	95	TTTGTGGCCTTCTTGTAAAGGCACG	TCGTGCCTTTACAAGAAGGCCACAA
Ì	96	TTCCACGAACGGCGACCCGTTGTCT	TAGACAACGGGTCGCCGTTCGTGGA
ľ	97	TCGACCTTGCACGAAACCTAACGAG	TCTCGTTAGGTTTCGTGCAAGGTCG
Ī	98	TGTGCAGCTTCACGAGCCAGCCTGA	TTCAGGCTGGCTCGTGAAGCTGCAC
5	99	TCGCTTTCGTGCGAATAGACGATGA	TTCATCGTCTATTCGCACGAAAGCG
·	100	TTGCGCTTACAGGCTCCTAGTGGTC	TGACCACTAGGAGCCTGTAAGCGCA
Ī	101	TCACGCGCTTAGTCGCGATCGCATA	TTATGCGATCGCGACTAAGCGCGTG
<b>†</b>	102	TCGGAGGAGGAGCTAGCCTTCGA	TTCGAAGGCTAGCTCCCTCCG
	103	TGCATCCGGCCTGTTGATGACGCCT	TAGGCGTCATCAACAGGCCGGATGC
10	104	TAGGCCAATCGATCTTATTGCCGAG	TCTCGGCAATAAGATCGATTGGCCT
· -	105	TCCTTCCAATGATTGCATACGCCCA	TTGGGCGTATGCAATCATTGGAAGG
	106	TAACACTTGATCAGGCGGGTCGTCT	TAGACGACCCGCCTGATCAAGTGTT
Ì	107	TTGGAATCAAGGCCGTAAAGGACAG	TCTGTCCTTTACGGCCTTGATTCCA
	108	TGCTCCCGTAACCTGTCCACCAGTG	TCACTGGTGGACAGGTTACGGGAGC
15	109	TAGTGGTGAATGGCCGCTACCCTGA	TTCAGGGTAGCGGCCATTCACCACT
	110	TTGTTGAAGCGAGCTAAAACGGCCA	TTGGCCGTTTTAGCTCGCTTCAACA
	111	TCAGCGCTCCAGAATTGACAGCAAT	TATTGCTGTCAATTCTGGAGCGCTG
	2	TTTCGAAGCGCACGTCCCTTTTCAA	TTTGAAAAGGGACGTGCGCTTCGAA
	3	TAACGCGTGGGGAATGGGACATCAA	TTTGATGTCCCATTCCCCACGCGTT
20	114	TCACGAGATACCGGCGTAAGGGTGG	TCCACCCTTACGCCGGTATCTCGTG
	115	TCTACGGCAAACGTGTGGAATGGGT	TACCCATTCCACACGTTTGCCGTAG
	116	TGTAGGGCGATGACGGGCGAACTAC	TGTAGTTCGCCCGTCATCGCCCTAC
	117	TAATCGACCTCCGCACACATTCGCA	TTGCGAATGTGTGCGGAGGTCGATT
	118	TGAGTCAGCATGGCGGCGGAGATTC	TGAATCTCCGCCGCCATGCTGACTC
25	119	TAGATAAAGACGCTGGCAACACGGG	TCCCGTGTTGCCAGCGTCTTTATCT
	120	TGGTACCTCAACGCGAACCACTTGT	TACAAGTGGTTCGCGTTGAGGTACC
	121	TAAGCGATGGCTACCCAAGAGCGAT	TATCGCTCTTGGGTAGCCATCGCTT
	122	TAGAGCTTATGCAGAACCAGGCGCC	TGGCGCCTGGTTCTGCATAAGCTCT
	123	TATCGGTCTCACGCAGGGTTGGATA	TTATCCAACCCTGCGTGAGACCGAT
30	124	TTAGGTTGCCCGCCAGAAGAACAT	TATGTTTCTTCTGGCGGGCAACCTA
	125	TCGGTGCTGTTGCAAAAGCCTGTAG	TCTACAGGCTTTTGCAACAGCACCG
	126	TTGATGAAAGTTTGCGGCAGGACAC	TGTGTCCTGCCGCAAACTTTCATCA
	127	TGTTGAGTGCAGGATGCAGCGATAG	TCTATCGCTGCATCCTGCACTCAAC
	128	TAACATTGCGCGGTCCACCAGGGTT	TAACCCTGGTGGACCGCGCAATGTT
35	129	TGGGCAGTTAGAGAGGGCCAGAAGT	TACTTCTGGCCCTCTCTAACTGCCC
	130	TTCGAGCTGGTCCCCGTGAACGTGT	TACACGTTCACGGGGACCAGCTCGA
	131	TGTCTTGGGGGCCGCTTAGTGAAAA	TTTTCACTAAGCGGCCCCCAAGAC
	132	TACTGTTGGCTTGCTCTCATGTCCA	TTGGACATGAGAGCAAGCCAACAGT
	133	TAGGACCATTCGGAAGGCGAAGATA	TTATCTTCGCCTTCCGAATGGTCCT
40	134	TCTTGGGAGGCATCCGCTATAAGGA	TTCCTTATAGCGGATGCCTCCCAAG
	135	TAATAAACGGAACGCACCGCTACAG	TCTGTAGCGGTGCGTTCCGTTTATT
		<del></del>	

136 TITGTACGTGCGGTCCCATAAGCA TGCTTGGGAACTCAGTTACAGT TGCGACCAAACTGAGTTTCCCAGAC TGTCTGGGAAACTCAGTTTGCGG 138 TACCTGATCGTTCCCCTATTGGGAA TTTCCCAATAGGGGAACTCAGGT 139 TGGAACAGAGCCGAGGGGACTGAGC TGCTCAGTCCCCTCGCCTCTGTCC 140 TCCCTGCCTTGGCGTGTCGGCTTAT TATAAGCCGACACGCCAAGGCAGGCAAGGCA				
138 TACCTGATCGTTCCCTATTGGGAA 139 TGGAACAGAGGCGAGGGGACTGAGC 139 TGGAACAGAGGCGAGGGGACTGAGC 140 TCCCTGCCTTGGCGTGTGGCTTAT 141 TACTCTGACACGCCCAACTCCGGAAG 142 TCTGACGGTTTCATTCGGAGTGC 143 TTGCGGTGGCTTAT 144 TGCATGGCGTGCCTTGGCGTGCC 145 TTGCAGGTTCATTGGAGCTGCC 144 TGCATGGCCAACTCCGGAAG 145 TTGCGGTGGCTTATTGGAGCTGCC 146 TGCACGCTAATGACCCCCCA 147 TACACGCCGAACTCCGCAA 148 TGCATGGCCAACTCGCCAA 149 TACACACCCCCAACTCACCGCA 148 TGGATATTATGCCGAGAATCCCACCT 148 TGGACGGTTACACCTG 148 TGGACGGTTACACCTGC 148 TGGACGGTTTGCTGCAATCCGCG 148 TGGACGGTTTGTGCTGGATTCCGCGA 149 TAAAGGCTATTGGTTGGTGGGCG 149 TAAAGGCTATTGGTTGGTTGGTTG 148 TGGACGGTTTTGGTTGGTTGGTTG 149 TAAAGGCTATTGGTTGGGCG 151 TGATCGCCTATTGGTTGGCCG 152 TAATAACTCCGCGGAATCCCAACACAACCACACACACACA	ſ	136	TTTGTACGTGCGGTCCCCATAAGCA	TTGCTTATGGGGACCGCACGTACAA
139 TGGAACAGAGGCGAGGGACTGAGC 140 TCCCTGCCTTGGCTTGTCC 140 TCCCTGCCTTGGCGTGTCGGCTTAT TATAAGCCGACACGCCAAGGCAGGG 141 TACTCTGACACGCCAACTCCGGAAG TCTTCCGGAGTTGGCGTGTCAGGGT 142 TCTGACGGTTTCATTCGGCGTGCC TGGCACGCCGAAGACACCGCAA 143 TTGCGGTGGTTCATTCGAGCTGCC TGGCACGCCGAATGAAAACCGCCA 144 TGCATGGCCAACTAGTGACTCGCAA TTTGCGAGTCCAATGAACCACCGCA 144 TGCATGGCCAACTAGTGACTCGCAA TTTGCGAGTCACATGAACCACCGCA 145 TAGGCCGTAAAGCGAATCTCACCTG TCAGGTGAGATTCAGCTTTACGGCCT 146 TCGAATATTATGCCGAGAATCCGCG TCGCGAGTTCTCGGCATTAATCGC 147 TACAGACGAGCTCCCAACCACATGA TTCATGTGGTTGGGAGCTCGTTTGT 148 TGGACGGTTTGTGCTGGATTGTCTG TCAGGATTCCGGCATATATCG 149 TAAAGGCTATTGAGTTGGTTGGGCG TCGGCCAACCACAACCGTCC 149 TAAAGGCTATTGAGTTGGTTGGGCG TCGGCCCAACCACAACCGTCC 149 TAAAGGCTATTGAGTTGGTTGGGCG TCGGCCCAACCACAACCGTCC 150 TGATGGCCTATTCGGAGATCGCGC TGGCCCAACCACACACACACTCATTAGCCTTT 151 TGATCCAGTAGGCAGCTTCACCCA TTGGGATGAAGCTCCTACATGGCTTC 152 TAATAACTCGCGCGGGGTATGCTTC TAGAAAGACTCCTCCAATAGCCATT 153 TGGAGGAGGTTTGTCTCGGAAAGCA TTGCTTTCCGAATAACCTCCCCC 154 TCTTTGGTATGGCACATGGAACCA TTGCTTCCGAACAACCTCCTCC 155 TAAAAAGGCTCGAGCAACGGAACCT TAGTTTCCGAGACAAACCTCTCCC 156 TAAAAAGGCTCGAGCAACGGAACCT TAGTTTCCGAGACAAACCTCTCCC 156 TAAAAAGGCTCGAGCAACGGAACCT TAGTTCCGGACCAAGTGCGTTACCAAAG 157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTTGCCATACCAAG 158 TTATCACCGCACTGGTCCGCAAGT TACTTGCGGACCAGTGGGTAGATT 157 TCGTGGCGCCACAGGTTTTTGGAGG TCCTCCAAAAACTTGGCCCTCCACG 158 TTAGCACTTCATTCCATACCGCACGT TACGTTGCGACCATGTGCCATACCAAG 159 TGGCCCAAAGCCCCCAAGCATTTTTTGAGGC 160 TCGCCCTTTCTTTTGTCTCCGGACAAT TATTTTTGCGGACCAGTGGGTAGATT 161 TTGAGGCAACAGGGGCCAAAAACAT TATTTTTTGCCGGAACAAGACAGGCG 161 TTGAGGCAACAGGGGCCAAAAACAT TATTTTTTGCGGACCAGGGACTACTTCCGCT 162 TAGCGGAACAAGGTTTAACCGCCTTTTTATCGAACTGCGGTTAAACTTCCGCT 163 TGGCCCCAAGGCTTAACCGCAGACTTTTAACGGCACTATAACAGCCCCCAAGGACTTAACCGCAGTTAACCTTCCAGTGCTTTTTTTT	Ī	137	TCGCACCAAACTGAGTTTCCCAGAC	TGTCTGGGAAACTCAGTTTGGTGCG
140 TCCCTGCCTTGCGTGTCGGCTTAT TATAAGCCGACACGCCAAGGCAGGG 141 TACTCTGACACGCCAACTCCGGAAG TCTTCCGGAGTTGGGTGTCAGAGT 142 TCTGACGGTTTTCATTCGGCGTGCC TGGCACGCCGAATGAAAACCGTCAG 143 TTGCGGTGGTTCATTGGAGCTGCC TGGCACGCCCAATGAACACCCGCA 144 TGCATGGCCAACTAGTGACTCGCAA TTTTGCGAGTCACTAGAACCACCGCA 144 TGCATGGCCAACTAGTGACTCGCAA TTTTGCGAGTTCCATTGAACTCACCGCA 145 TAGGCCGTAAAGCGAATCTCACCTG TCAGGTGACATAGTTGGGCCT 146 TCGAATATTATGCCGAGAATCCACCTG TCAGGTGAGATTCGGCATAATATTCG 147 TACAGACGAGCTCCCAACCACATGA TTTCATGTGGTTGGGAGCTCGTTTT 148 TGGAGCGTTTGTGTGTTGTGTTGTTGTTGTTGTTGTGTTGGGAGCTCGTCTT 149 TAAAGGCTATTGAGTTGGTTGGGCC TGGCCCAACCAACTCAATAGCCTTT 149 TAAAGGCTATTCGGAGATCCGCA TGGCCCAACCAACCACTGACT 150 TGATGCCCTATTCGGAGATCGGCC TGGCCCAACCAACTCAATAGCCTTT 151 TGATCAGTAGGCGGGCCACTCCCAACTCAATAGCCTTT 152 TAATAACTCGCGCGGGTATGCTTCT TAGAAGCATACCCGCCGAGTTTTC 153 TGGAGGAGGTTTGTCTCCAATTGGATTGCCCA 154 TCTTTGGTATGGCACATCCCCA TTGGGATGAAGCTGCCTACTGGATC 155 TAGAAAGGCTCGACACACACTCCACTCCCCC 156 TAATTACCGCCGGGGTATGCTTCT TAGAAGCATACCCCGCCGAGTTTTC 156 TAATCTACCGCACTGGTCCGCAAGT TACTTCCGAGACAAAACCTCCTCCC 156 TAATCTACCGCACTGGTCCGCAAGT TACTTGCGGACCACTTGCCATACCAAAG 157 TCGTGGCGCCACAATTTTTGAGGG 157 TCGTGGCGCCACAATTTTTAGAGTTCCAACAACTTCCCAAAACTTGGCCCTTCCTCCTACTGGACCAATTTTCGAGGGCTTTCCAAAACTTGGCCCAACACCATTTTCCAAAACTTGGCCCAACACCATTTTCGAACTGCAACACTTTCCCAAAACTTTGGCCCCAAACCACTTTTCCAAAACTTGGCCCCCAAGCCATTTTAATTTTTTTT	Ī	138	TACCTGATCGTTCCCCTATTGGGAA	TTTCCCAATAGGGGAACGATCAGGT
141 TACTCTGACACGCCAACTCCGGAAG 142 TCTGACGGTTTCATTCGGCGTGCC 143 TTGCGGTGTTCATTCGGCGTGCC 144 TGCATGGTTCATTTGAGCTGGCC 144 TGCATGGTCAACTTGCAACTTGCAACTCCAACTTGAACACCACCGCA 144 TGCATGGCCAACTAGTGACTCGCCAA 145 TTAGGGCGTAAAGCGAACTCTCACCTG 146 TCGAATATTATGCCGAGAATCTCACCTG 147 TACAGACGAACTCCACACCACTGC 148 TGGACGGTTAAACCGCAACTCACCACTTTTCGGAGTTCACTAGTTGGCCATGC 149 TCAAGACCGACCCCAACCACATGA 140 TGCAATATTATGCCGAGAATCCGCG 141 TGCAGGTTTGTGCTGGAATTCTCGCTG 141 TGCAGGGTTTGTGCTGGAATTCTCGCTG 142 TCAAGACCGACCACCACTGA 143 TTACAGACGAACCCACCACTGA 144 TGCACGGTTTGTGTTGGGCGC 145 TGCAGCCAACCCAACCACCACCACCACCACCACCACCACCA	Ī	139	TGGAACAGAGGCGAGGGGACTGAGC	
142 TICTGACGGTTTCATTCGGCGTGCC TGGCACGCCGAATGAAAACCGTCAG 143 TITGCGGTGGTTCATTGGAGCTGGCC 144 TGCATGGCCAACTAGTGACTCGCAA 144 TGCATGGCCAACTAGTGACTCGCAA 144 TGCATGGCCAACTAGTGACTCGCAA 145 TAGGCCGTAAAGCGAATCCACCTG 146 TCGAATATTATGCCGAGAATCCACCTG 147 TACAGACGAGCTCCCAACCACTGA 148 TGGACGGATTCTCACCTG TCAGGTGAGATTCCGCTATATTATCG 148 TGGACGGATTGTGCTGGAATCCGCG TCGCGGATTCTCGGCATAATATTCG 148 TGGACGGTTTGTGCTGGATTGTCTG TCAGACAATCCAGCACAAACCGTCC 149 TAAAGGCTATTCGGAGATCGGGC TGCCCCAACCAACTCAATAGCCTTT 150 TGATGCCCTATTCGGAGATCGGGC TGGCCCAACCAACTCAATAGCCTTT 151 TGATCCAGTAGGCAGCTTCATCCCA 152 TAATAACTCGCGCGGGTATGCTTCT TAGAAGCATACCGGCCAACTCAATAGCCTTT 153 TGGAGGAGGTTTGTCTCT TAGAAGCATACCGGCGCGAGTTATT 153 TGGAGGAGGTTTGTCTCTGGAAAGCA TTGCTTTCCGGACAAAACCTCCTCC 154 TCTTTGGTATGGCACAACGGGAACC 155 TAGAAAAGCTCGAGCAACGGGAACT TAGTTCCCGTTGCTCGAGCCATCC 156 TAATAACTCGCCACTGGTCCCCAAGT TACTTCCCGTTGCTCGAGCCATCC 157 TCGTGGCGGCCACACTTTTTGAGG TCCTCCAAAAACTTGCCGACAAGG 158 TTTGCAGTCAATCCATACGCACGT TACTTGCGGACCAAGGCGACAAACTCCAAAG 159 TGGCCCAAAGCCCCAGACATTTTA TTAAAATGGTCTGGGGCCACAG 159 TGGCCCAAAGCCCCAGACCATTTTA 150 TGGCGCCCAAGCCATTTTA TAAAATGGTCTGGGGCCTTTGGCCCAAGCCACGGCAAAAACTA 159 TGGCCCCAAGCCCCAGACCATTTTA 150 TCGCGCACAAGGCACAACTACTTTTA 151 TGAGGGACAAAGGGGCCAAAAACTA 151 TGAGGCACCAAGGGGCCAAAAACTA 152 TAGCGGAAGAAGGGGCCAAAAACTA 153 TGGCCCCAAGGCTTAGAGATAGTGG TCACCAAGGACAAAACCAGGCG 161 TTGAGGCACCAAGGGGTTAACGGC TCCACAAGCCCCTGTTCCCCTC 162 TGCCCCAAGGCTTAGAGATAGTGG TCCACTAAGGAACATACTCCCCCTT 163 TGCCCCCAAGGCTTAGAGATAGTGC TCACCAAGAACTACTTCCCCCT 164 TGCACGGAAGAACATACTACTCCACTCTCCGCT 165 TAGCGGCAAGAAACTA TATTGTCCCGAAGAAAACTACTCCCCCT 166 TTCGTCGAAGAAACTA TATTGTCCCGAAGAAAACTACTCCCCCT 167 TGCCGCCAAGGCTTAAACACTTTTATTG 166 TTCGTCGAAGAACACTTTTATTG 167 TCCTTTTGCCGCAAGAAAACTA TAATTTTTTTTCCCCAAGAACATTTTCACCGCT 166 TTCGTCGAAGAACACTTTTATTG 167 TCCTTTTGCCCGCAAGAACTTTTATTTTTTTTTTTTTTT	5	140	TCCCTGCCTTGGCGTGTCGGCTTAT	TATAAGCCGACACGCCAAGGCAGGG
143 TIGCGEGGTTCATTGGAGCTGGCC TGGCCAGCTCCAATGAACCACCGCA 144 TGCATGGCCAACTAGTGACTCGCAA TITTGCGAGTCACTAGTTGGCCATGC 145 TAGGCCGTAAAGCGAATCTCACCTG TCAGGTGAGATTCGCTTTACGGCCT 146 TCGAATATTATGCCGAGAATCCGCG TCGCGGATTCTCGGCATAATTCG 147 TACAGACGAGCTCCCAACCAATGA TTCAGTTGGTTCGGCATAATTCG 148 TGGACGGTTCTCCGACCAACGA TCAGTGTGTTCGGCATAATATTCG 149 TAAAGGCTATTGGTTGTGTTGTTTGTTTCTTTCAGACCACAACCGTTC 149 TAAAGGCTATTGAGTTGGTTGGGCG TCGCCCAACCAACCAACTCAATAGCCTTT 150 TGATGGCCTATTCGGAGATCGGCC TGGCCCGACCAACCAACTCAATAGCCTTT 151 TGATCCAGTAGGCAGCTTCATCCCA TTGGGATGAAGCCTACTCGGATATGTTCT 152 TAATAACTCGCGGGGTATGCTTCT TAGAAGCATACCCGCCGCGAGTTATT 153 TGGAGGAGGTTTGTCTCGGAAAGCA TTGCTTTCCGAACAACCTCCCCC 154 TCTTTTGGTATTGCCACTAGCTCCG TCGGGCAGCAATGCCCATACCAAG 155 TAGAAAGGCTCGAGCAACGGGAACT TACTTCCGAGACAAACCTTCTCT 156 TAATCTACCGCACTGGTCCGCAAGT TACTTCCGAGACAAACCTTCTCT 157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTTGCGCACGGATTTTCT 158 TTTGCAGTTCAATCCATACGCACGT TACTTCCGGTGCGGACCATGTCGCAAG 159 TGGCCCCAAGCCCCCAGACCATTTA TACTTCCCGTTGCTCGAGCCTTCC 154 TCGCCCTAACCCCCAGACCATTTA 157 TCGTGGCGGCCCCAGACCATTTA 158 TTTGCAGTTCAATCCATACGCACGT TACTTCCGGAGAACAAACTGCCACAG 159 TGGCCCCAAGCCCCCAGACCATTTA 150 TGGCCCCAAGCCCCCAGACCATTTA 151 TGAGGCAACAGGGGCCAAAAACTA TATTGTCCGGAGAACAAGACAGCCC 161 TTGAGGCAACAGGGGCCAAAAACTA TATTGTCCGGAGAACAAGACAGCCC 162 TAGCGGAAGTAGTCCTCGGCTCGTC TGAACGACCGAGGACTACTTCCGCT 163 TGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAACCCTTGGGCC 164 TGCAGCAAAACGTTCCACCG TCCGTCCAAAAACTACTTCCGCTCACCTTTGCGCC 165 TAGCGGCAGAAACACTTTTAACCGCGATTC TCACTCCAAAACTTTCGCCCT 166 TTCGTCGAAGACTTTAACCACGATTCCACCG TCCGTCAAAGACAAGAC	Ī	141	TACTCTGACACGCCAACTCCGGAAG	TCTTCCGGAGTTGGCGTGTCAGAGT
144 TGCATGGCCAACTAGTGACTCGCAA 145 TAGGCCGTAAAGCGAATCTCACCTG TCAGGTGAGATTCGCTTTACGGCCT 146 TCGAATATTATGCCGAGAATCCGCG TCGCGGATTCTCGGCATAATATTCG 147 TACAGACGAGCTCCCAACCACATGA TCCATGTGGGAGCTCTCTGT 148 TGGACGGTTTGTGCTGGAATTGTTTG 148 TGGACGGTTTGTGTGTGT TCAGGCACAACCACACACACACACACACACACACACACAC	Ī	142	TCTGACGGTTTTCATTCGGCGTGCC	
145 TAGGCCGTAAAGCGAATCTCACCTG TCAGGTGAGATTCGCTTTACGGCCT 146 TCGAATATTATGCCGAGAATCCGCG TCGCGGATTCTCGGCATAATATTCG 147 TACAGACGAGCTCCCAACCACTGA TCATGTGGTTGGGAGCTCGTCTGT 148 TGGACGGTTTGTCTGGATTTGCTG TCAGACAATCCAGCACAAACCGTCC 149 TAAAGGCTATTGAGTTGGTTGGGCG TCGCCCAACCAACCAACCAATCCATTCGCTT 150 TGATGGCCTATTCGGAGATCGGGCC TGGCCCGATCTCCGAATAGGCCTTC 151 TGATCCAGTAGGCAGCTTCATCCCA TTGGGATGAACCTCCTGCTGGATC 152 TAATAACTCGCGCGGGTATGCTTCT TAGAAGCATACCCGCGCGAGTTATT 153 TGGAGGAGGTTTGTCTC TAGAAGCATACCCGCGCGAGTTATT 154 TCTTTGGTATGGCACATGCCCG TCGGGCAGCATGGCCTACTGGATC 155 TAGAAAGGCTCGAGCAACGGGAACT TAGTTCCCGTTGCCTACCTCCC 156 TAATCACCCCACTGGTCCCCG TCGGGCAGCATGTCCCAACG 157 TCGTGGCGGCACACGGGAACT TAGTTCCCGTTGCCGAGCCATTCCTC 158 TAATCTACCGCACTGGTCCGCAGT TACTTCCCGAGCACATGCCCAACG 157 TCGTGGCGGCACACGGTTTTTTGAGGG 158 TTTTGCAGTTCAATCCATACGCACGT TACTTGCGGACCAGTGGCCCACG 158 TTTGCAGTTCAATCCATACGCACGT TACTTGCGGACCAGTGGCCCACG 159 TGGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCCCACAG 159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCCTCCAA 159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCCCACGC 161 TTGAGGGAACAAGGGGCCAAAAACTA TATTGTCCGGAGACAAAGACAGGCC 162 TAGCGGAAACTATCCCCGGCTCC TGACGAGCCCAGGACAAAGACACGCC 163 TGGCCCAAGGCTTAGACATAACTA TATTGTCCGGAGACAAAGACACGCCG 164 TGCACGGAAACATTACCCGCGATTC TGACGAGCCGAGAACAATTCCCCCA 165 TAGCGGCAGAAACTTTCCTTGACGC TCCGTCAAGGAACCATTTCCCCTC 166 TTCGTCGAGCAGACGAACTTCCTTGACGC TCCGTCAAGGAACCATTTCCCCCT 167 TTCTTTGCCGCCGTAACCACTGCTTT TAAGCAGTCAGTTCCCCGCT 168 TTTCTTTGCCGCCGAACCACTTTTATTCTCTTCAAGCCATTCCCGCGCAAAAACTTCCCCGCGTTAAACCTCTCACGCGCAAAAACTTCCTTTGACCG 167 TTCTTTTGCCGCCTTAACCCTTTTTTTTTTTTTTTTTTT		143	TTGCGGTGGTTCATTGGAGCTGGCC	TGGCCAGCTCCAATGAACCACCGCA
146 TCGAATATTATGCGAGAAATCCGCG TCGCGGATTCTCGGCATAATATTCG 147 TACAGACGAGCTCCCAACCACTGA TTCATGTGGTTGGAGCCTCGTCTGT 148 TGGACGGTTTGTGCTGGATTGTCTG TCAGACAATCCAGCACAAACCGTCC 149 TAAAGGCTATTGAGTTGGTTGGTTGGTTGGCCCAACCAAC	Ī	144	TGCATGGCCAACTAGTGACTCGCAA	TTTGCGAGTCACTAGTTGGCCATGC
147 TACAGACGAGCTCCCAACCACATCA 148 TGGACGGTTTGTGCTGGATTGTTG TCAGACAATCCAGCACAAACCGTCC 149 TAAAGGCTATTGAGTTGGTTGGCTGGATTGTTG 149 TAAAGGCTATTCGGAGATCGGCC TCGCCCAACCAACCAATAGCCTTT 150 TGATGGCCTATTCGGAGATCGGCC TGGCCCAACCAACCAATAGCCTTT 151 TGATCCAGTAGGCAGCTTCATCCCA TTGGGATGAACGCGCCTACTGGATC 152 TAATAACTCGCGCGGGGTATGCTTCT TAGAAGCATACCCGCCGGAGTTATT 153 TGGAGGAGGTTTGCTCCGAAAGCA TTGCTTTCCGAGACAAACCTCCTCC 154 TCTTTGGTATGGCACATGCTGCCC TCGGGCAGCATGCTCCCAAAG 155 TAGAAAGGCTCGAGCAACGGGAACT TAGTTCCCGAGACAAACCTCCTCC 156 TAATCTACCGCACTGGTCCGCAAGT TACTTCCGGACCAAGCCTTCTT 157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTGTGGCCGCACGAGT 158 TTTGCAGTTCAATCCATACGCACGT TACTTCCGGACCAAGTGCGCGCACGAA 159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGCGCTTTGGCCAA 159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCTTTGGCCCAA 160 TCGCCTGTCTTTGTCCCGGACAAT TATTGTCCGGAGACAAAACACGCC 161 TTGAGGCAACAGGGGCCAAAAACTA TATTGTCCGGAGCACAAAACACGCCG 162 TAGCGGAAGTAGTCCTCGGCTCGTC TGACGAGCCGAGGACTACTTCCGCT 163 TGGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGACGAGCCGAGGACTACTTCCGCT 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACCGTTCCTGCCTCA 166 TTCGTCGAGCAGACGAGATTGCACG TCCGTCAAGGAACCGTTCCGCCT 166 TTCGTCGAGCAGACGAGATTGCACG TCCGTCAAGGAACCGTTCCTGCCCGCT 167 TTCTTTTGCCGCCTTAACTGACTTGCCCC TGGGCAACACAA 169 TTGTTTACTGTGGTTCACGGACCCC TGGACCTCCCCTTGTCGCCAAAACCAAAACTA 169 TTGTTTACTGTGGTTCACGGCAGCCC TGGACCTCCCCTTTGGCACCAAAACCAAAACCAACAGTAACCAACAGTAACCAACAGTAACCAACAGTAACCAACAGTAACCAACAGTAACCAACAGTAACCAACAGGAGCCCCCAAGGACCTTTATTTTTTTT	10	145	TAGGCCGTAAAGCGAATCTCACCTG	TCAGGTGAGATTCGCTTTACGGCCT
148 TGGACGGTTTGTGCTGGATTGTCTG TCAGACAATCCAGCACAAACCGTCC 149 TAAAAGCTATTGAGTTGGTTGGCG TCGCCCAACCAACTCAATAGCCTTT 150 TGATGGCCTATTCGGAGAGTCGGCC TCGCCCAACCAACTCAATAGCCTTT 151 TGATCCAGTAGGCAGCTTCATCCCA TTGGGATGAAGCTGCCTACTGGATC 152 TAATAACTCGCGCGGGGTATGCTTCT TAGAAGCATACCCGGCGAGTTATT 153 TGGAGGAGGTTTGTCTCGGAAAGCA TTGCTTTCCGAGACCAAACCTCCTCC 154 TCTTTGGTATGGCACATGCTGCCCG TCGGGCAGCATGTGCCCTACCAAAG 155 TAGAAAGGCTCGAGCAACGGGAACT TAGTTCCCGTTGCTGGAGCCTTTCT 156 TAATCTACCGCACTGGTCCGCAAGT TACTTCCGGTAGCCTTTCT 157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTGTGGCCGCACGG 158 TTTGCAGTTCAATCCATACGCACGT TACCTGCGGACCATGGCGCACG 159 TGGCCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCCCACG 159 TGGCCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCCCAAG 159 TGGCCCCAAGGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCCCACG 161 TTGAGGCAACAGGGGCCAAAAACTA TATTGTCCGGAGACAAAAACAGGCG 162 TAGCGGAACTAGTCCTCGGCTCGTC TGACGAGCCGAGACAAAAACAGACAGGCG 163 TGGCCCCAAGGCTTAGAGAACATA TTAGTTTTGGCCCCTGTTGCCTCA 162 TAGCGGAACTAGTCCTCGGCTCGTC TGACGAGCCGAGGACAAAACACTCCCCTGTTGCCTCA 163 TGGCCCCAAGGCTTAAAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGAAACTTCACGTGC 166 TTCGTCGAGCAAGACGAGATTGCACG TCGTCAAGAAACTTCACGTGC 167 TTCTTTTGCCGCGTAACCACG TCGTCAAGAAACTTCCGCGCAAAAAAAACTA 168 TTTTTTTGCCGCGTAACCACGA TCGGTCAACCACTTAAAA 169 TTGTTACTGTGGTTCACGGCAGTC TAAGCAGTCAGTTACGCGGCAAAAAAAAAA	Ī	146	TCGAATATTATGCCGAGAATCCGCG	TCGCGGATTCTCGGCATAATATTCG
149 TAAAGGCTATTGAGTTGGTGGGCC TCGCCCAACCCAAC	]	147	TACAGACGAGCTCCCAACCACATGA	TTCATGTGGTTGGGAGCTCGTCTGT
150 TGATGGCCTATTCGGAGATCGGGCC TGGCCCGATCTCCGAATAGGCCATC 151 TGATCCAGTAGGCAGCTTCATCCCA TTGGGATGAAGCTGCCTACTGGATC 152 TAATAACTCGCGCGGGTATGCTTCT TAGAAGCATACCCGCGCGAGTTATT 153 TGGAGGAGGTTTGTCTCGGAAAGCA TTGCTTTCCGAGACAAACCTCCTCC 154 TCTTTGGTATGGCACATGCTGCCG TCGGGCAGCACAAACCTCCTCC 155 TAGAAAGGCTCGAGCAACGGGAACT TAGTTCCGATGCACCAAAG 156 TAATCTACCGCACTGGTCCGCAAGT TACTTGCGGACCATGCGAAGCT 157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTGTGGCCCACG 158 TTTGCAGTTCAATCCATACGCACGT TACGTGCGTAGATTGAACTGCAA 159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCTTTGGACC 161 TTGAGGCAACAGGGGCCAAAACTA TATTGTCCGGAGCACAAGACAGGCC 162 TAGCGCAACAGGGCCAAAACTA TATTGTCCGGAGACAAAGACAGGCC 163 TGGCCCCAAGGCTCCTCGGCTCGTC TGACGAGCCCAGGGGCCTTGCCTCA 163 TGGCCCCAAGGCTTAGAGAAACTA TAGTTTTTGGCCCCCTTGGCCCC 164 TGCACGTGAAGTTTAACCGCGATTC TGACGAGCCGAGGACTACTTCCGCT 165 TAGCGGCAGAAACGTTCCTTGACGG TCCACTATCTCTAAGCCTTGGGGCC 166 TTCGTCGAGCAACAGATTGCACG TCCTCAAGGAACGTTTCACGTGC 167 TTCTTTGCCGCGTAACTTGCACG TCCTCAAGGAACGTTTCTGCCGCT 168 TTTGTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACCCTCGACGA 167 TTCTTTGCCGCGTAACTGACTGCT TCAGCAGTCAGTTACCCGCGCTAAACA 169 TTGTTACTGTGGTTCACGGAGTCC TGGACTCACTTGCCGCCAAAGA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTCACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTCACCACAGAACAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTCACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTCACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTCACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTCACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGAGACACACAGAGACACACAC		148	TGGACGGTTTGTGCTGGATTGTCTG	TCAGACAATCCAGCACAAACCGTCC
151 TGATCCAGTAGGCAGCTTCATCCCA TTGGGATGAGCTGCCTACTGGATC 152 TAATAACTCGCGCGGGTATGCTTCT TAGAAGCATACCCGCGCGAGTTATT 153 TGGAGGAGGTTTGTCTCGGAAAGCA TTGCTTTCCGAGACAAACCTCCTCC 154 TCTTTGGTATGGCACATGCTGCCCG TCGGGCAGCAAACCTCCTCC 155 TAGAAAGGCTCGAGCAACGGGAACT TAGTTCCCGTTGCTCGAGCCTTTCT 156 TAATCTACCGCACTGGTCCGCAAGT TACTTGCGGACCAGTGCGCTAGATT 157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTGTGGCCGCACG 158 TTTGCAGTTCAATCCATACGCACGT TACGTGCGTAGATTGAACTGCAA 159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGCCTTTGGGCC 160 TCGCCTGTCTTTGTCTCCGGACAAT TATTGTCCGGACCAAGACAAGA		149	TAAAGGCTATTGAGTTGGTTGGGCG	TCGCCCAACCAACTCAATAGCCTTT
152 TAATAACTCGCGCGGGTATGCTTCT TAGAAGCATACCCGCGCGAGTTATT 153 TGGAGGAGGTTTGCTCCGGAAAGCA TTGCTTTCCGAGACAAACCTCCTCC 154 TCTTTGGTATGGCACATGCTGCCCG TCGGGCAGCATGTGCCATACCAAAG 155 TAGAAAGGCTCGAGCAACGGGAACT TAGTTCCCGTTGCTCGAGCCTTTCT 156 TAATCTACCGCACTGGTCCGCAAGT TACTTGCGGACCAGTGCGGTAGATT 157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTGTGGCCGCCACG 158 TTTGCAGTTCAATCCATACGCACGT TACGTGCGTATGGATGGACCACG 159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCCCACA 159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCCCACA 160 TCGCCTGTCTTTGTCTCCGGACCAAT TATTGTCCGGAGACAAAGACAGGCG 161 TTGAGGCAACAGGGGCCAAAAACTA TATTGTCCGGAGACAAAGACAGGCG 162 TAGCGGAAGTAGTCCTCGGCTCGTC TGACGAGCCGAGGACTACTTCCGCT 163 TGGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 166 TTCGTCGAGCAGAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACCGCGGCAAAGA 168 TTTATTGTGCCAAGGGGTTAACCGA TCCGTCAAGGAACCATTACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TCGCCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGGGCAATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACCGATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACACTCAGCGGCGTTATTTG 173 TCAAATAACGCCGCTGAATCGCGT TACGCCGATTCAGCGGGGTTATTTG 174 TCCTTCGTGCATCGGTGATGGTT TAACATCACCCATTCAGCAGCGGTTATTTG 175 TTGAACACGAGCCACACCTCCAACCT TAGCTTGGAGTTATATCTGCCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACACCCAATTCACCGATGCACCAACGAAGG 175 TTGAACACGAGCCACACCTCCAACCT TACACTCACCCATTGGTTCACCGAATGTTATTG	15	150	TGATGGCCTATTCGGAGATCGGGCC	TGGCCGATCTCCGAATAGGCCATC
153 TGGAGGAGGTTTGTCTCGGAAAGCA TTGCTTTCCGAGACAAACCTCCTCC 154 TCTTTGGTATGGCACATGCTGCCCG TCGGGCAGCATGTGCCATACCAAAG 155 TAGAAAGGCTCGAGCAACGGGAACT TAGTTCCCGTTGCTCGAGCCTTTCT 156 TAATCTACCGCACTGGTCCGCAAGT TACTTGCGGACCAGTGCGGTAGATT 157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTGTGGCCGCCACG 158 TTTGCAGTTCAATCCATACGCACGT TACGTGCGTATGGATTGAACTGCAA 159 TGGCCCAAAGCCCCAGACCATTTA TTAAAATGGTCTGGGGCTTTTGGGCC 150 TCGCCTGTCTTTGTCTCCGGACAAT TATTGTCCGGAGACAAAGACAGGCG 161 TTGAGGCAACAGGGGCCAAAAACTA TTAGTTTTTGGCCCCTGTTGCCTCA 162 TAGCGGAAGTAGTCCTCGGCTCGTC TGACGAGCCGAGGACTACTTCCGCT 163 TGGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTCCAAGGAACGTTTCTGCCGCT 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TCGTGCAATCTCGTCTGCACGA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TACATAAAAAGGTCTAGCGGCGCG 171 TACAAATGCGTGAACCCGAATGT TACATTCAGCGGCGTTATTTTG 172 TCGCGCAGATTATAGACCCGAATGT TACATTCAGCGGCGTTATTTTG 174 TCCTTCGTGCATCGGTGAACCACGC TACGCCGTTCACGCGTTATTTTG 174 TCCTTCGTGCATCGGTGAACCACGC TACCACCTTTCACCGAGTTTTTTG 174 TCCTTCGTGCATCGGTGAACCACGC TCCCACCT TACGCCGATTCACCGAGCGCGTTATTTG 174 TCCTTCGTGCATCGGTGTATCTCCACCCTTTCACCGATTCACCCCTTTTTTTG 174 TCCTTCGTGCATCGGTGTATCTCCCGCGTTAACCCCCTTTCACCGATTCACCCGATTCACCCGATTCACCCGATTCACCCGATTCACCCGATTCACCCCTTTCACCGATTCACCCCTTTTTTTG 175 TTGAACACCGAGCAACACTCCAACCT TACGCCGATTCACCCGATTCACCCCTTTTTTTCCTCCTTTCACCCCTTTTTTTCTCTCCTTTTTT		151	TGATCCAGTAGGCAGCTTCATCCCA	TTGGGATGAAGCTGCCTACTGGATC
20 155 TAGAAAGGCTCGAGCACATGCTGCCCG TCGGGCAGCATGTGCCATACCAAAG 156 TAATCTACCGCACTGGTCCGCAAGT TACTTGCGGACCAGTGCGGTAGATT 157 TCGTGGGCGCCACAGTTTTTGGAGG TCCTCCAAAAACTGTGGCCGCACG 158 TTTGCAGTTCAATCCATACGCACGT TACGTGCGTATGGATTGAACTGCAA 159 TGGCCCAAAGCCCCCAGACCATTTTA TTAAAATGGTCTGGGGCTTTTGGGCC 160 TCGCCTGTCTTTGTCTCCGGACAAT TATTGTCCGGAGACAAGACA		152	TAATAACTCGCGCGGGTATGCTTCT	TAGAAGCATACCCGCGCGAGTTATT
20 155 TAGAAAGGCTCGAGCAACGGGAACT TAGTTCCCGTTGCTCGAGCCTTTCT 156 TAATCTACCGCACTGGTCCGCAAGT TACTTGCGGACCAGTGCGGTAGATT 157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTGTGGCCGCCACG 158 TTTGCAGTTCAATCCATACGCACGT TACGTGCGTATGGATTGAACTGCAA 159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCTTTTGGGCC 160 TCGCCTGTCTTTGTCTCCGGACAAT TATTGTCCGGAGAACAAGACAGGCG 161 TTGAGGCAACAGGGGCCAAAAACTA TTAGTTTTTGGCCCCTGTTGCCTCA 162 TAGCGGAACAAGGGGCCAAAAACTA TTAGTTTTTGGCCCCTGTTGCCTCA 163 TGGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGGTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCTGGACGA 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TCGGTTAACCCCTTGGCACAAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGGCTATAACTTCGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGGTCATACCGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACCATCACCGATTCACCGATTATTTG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGATCCAGGAGGG 40 175 TTGAACACGAGGAACACTCCCAACGC TGCGTTGGAGTGATCCAGAGAGG		153	TGGAGGAGGTTTGTCTCGGAAAGCA	TTGCTTTCCGAGACAAACCTCCTCC
156 TAATCTACCGCACTGGTCCGCAAGT TACTTGCGGACCAGTGCGGTAGATT 157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTGTGGCCGCCACG 158 TTTGCAGTTCAATCCATACGCACGT TACGTGCGTATGAATTGAACTGCAA 159 TGGCCCAAAGCCCCAGACCATTTA TTAAAATGGTCTGGGGCTTTGGGCC 160 TCGCCTGTCTTTGTCTCCGGACAAT TATTGTCCGGAGACAAGACA		154	TCTTTGGTATGGCACATGCTGCCCG	TCGGGCAGCATGTGCCATACCAAAG
157 TCGTGGCGGCCACAGTTTTTGGAGG TCCTCCAAAAACTGTGGCCGCCACG 158 TTTGCAGTTCAATCCATACGCACGT TACGTGCGTATGATTGAACTGCAA 159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCTTTGGGCC 160 TCGCCTGTCTTTGTCTCCGGACAAAT TATTGTCCGGAGACAAAGACAGGCG 161 TTGAGGCAACAGGGGCCAAAAACTA TATTGTCCGGAGACAAAGACAGGCG 162 TAGCGGAAGTAGTCCTCGGCTCGTC TGACGAGCCGAGGACTACTTCCGCT 163 TGGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCTGCCGCT 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACAAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACACTCACCGATGCACGAAGG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTCACCAAAGAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTCACCAAAGAGAACACTCCAACGC TGCGTTGGAGTGTTTCAACAAAACAA	20	155	TAGAAAGGCTCGAGCAACGGGAACT	
158 TITGCAGTTCAATCCATACGCACGT TACGTGCGTTGAACTGCAA 159 TGGCCCAAAGCCCCAGACCATTTA TTAAAATGGTCTGGGGCTTTGGGCC 160 TCGCCTGTCTTTGTCTCCGGACAAT TATTGTCCGGAGACAAAGACAGGCG 161 TTGAGGCAACAGGGGCCAAAAACTA TATTGTCCGGAGACAAAGACAGGCG 162 TAGCGGAAGTAGTCCTCGGCTCGTC TGACGAGCCGAGGACTACTTCCGCT 163 TGGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCTGCCGCT 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAACAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGACCTTTTATTG TCAATAAAAGGTCTACCGCAGTGCCG 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTAAACTCGCCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCACCGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGTT TAACATCACCGATGCCACGAAGGG 40 175 TTGAACACGCACACTCCAACC TGCGTTGGAGTGTTCACCCGATGTCCA		156	TAATCTACCGCACTGGTCCGCAAGT	TACTTGCGGACCAGTGCGGTAGATT
159 TGGCCCAAAGCCCCAGACCATTTTA TTAAAATGGTCTGGGGCTTTGGGCC 160 TCGCCTGTCTTTGTCTCCGGACAAT TATTGTCCGGAGACAAAGACAGGCG 161 TTGAGGCAACAGGGGCCAAAAACTA TTAGTTTTTGGCCCCTGTTGCCTCA 162 TAGCGGAAGTAGTCCTCGGCTCGTC TGACGAGCCGAGGACTACTTCCGCT 163 TGGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCTGCACGA 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTTGGCACAATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCACCGATGCACGAAGG 40 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGCTCCACGAAGGG		157	TCGTGGCGGCCACAGTTTTTGGAGG	
160 TCGCCTGTCTTTGTCTCCGGACAAT TATTGTCCGGAGACAAAGACAGGCG 161 TTGAGGCAACAGGGGCCAAAAACTA TTAGTTTTTGCCCCCTGTTGCCTCA 162 TAGCGGAAGTAGTCCTCGGCTCGTC TGACGAGCCGAGGACTACTTCCGCT 163 TGGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCGCTCGACGA 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGGCTTATATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCACCGATGCACGAAGG		158	TTTGCAGTTCAATCCATACGCACGT	TACGTGCGTATGGATTGAACTGCAA
161 TTGAGGCAACAGGGGCCAAAAACTA TTAGTTTTTGGCCCCTGTTGCCTCA 162 TAGCGGAAGTAGTCCTCGGCTCGTC TGACGAGCCGAGGACTACTTCCGCT 163 TGGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCTGCTCGACGA 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCACCGAGGGCGCG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTCCTCGTGTTCA		159	TGGCCCAAAGCCCCAGACCATTTTA	
162 TAGCGGAAGTAGTCCTCGGCTCGTC TGACGAGCCGAGGACTACTTCCGCT 163 TGGCCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCTGCTCGACGA 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGCTCCTCACCGATGCACGAAGG	25	160	TCGCCTGTCTTTGTCTCCGGACAAT	
163 TGGCCCAAGGCTTAGAGATAGTGG TCCACTATCTCTAAGCCTTGGGGCC 164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCTGCTCGACGA 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATCGGCGT TACACCCGATGCACGAAGG 40 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTCACCAACGCAACG		161	TTGAGGCAACAGGGGCCAAAAACTA	
164 TGCACGTGAAGTTTAACCGCGATTC TGAATCGCGGTTAAACTTCACGTGC 165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCTGCTCGACGA 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 169 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 40 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTCACCAACGCATGCTCCAACGCAACG		162	TAGCGGAAGTAGTCCTCGGCTCGTC	
165 TAGCGGCAGAAACGTTCCTTGACGG TCCGTCAAGGAACGTTTCTGCCGCT 166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCTGCTCGACGA 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGGTGTTCA		163	TGGCCCAAGGCTTAGAGATAGTGG	
166 TTCGTCGAGCAGACGAGATTGCACG TCGTGCAATCTCGTCTGCTCGACGA 167 TTCTTTGCCGCGTAACTGACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTCA		164	TGCACGTGAAGTTTAACCGCGATTC	TGAATCGCGGTTAAACTTCACGTGC
167 TTCTTTGCCGCGTAACTGCTT TAAGCAGTCAGTTACGCGGCAAAGA 168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTCA	30	165	TAGCGGCAGAAACGTTCCTTGACGG	
168 TTTTATGTGCCAAGGGGTTAACCGA TTCGGTTAACCCCTTGGCACATAAA 169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTGCACGTGTTCA		166	TTCGTCGAGCAGACGAGATTGCACG	
169 TTGTTACTGTGGTTCACGGCAGTCC TGGACTGCCGTGAACCACAGTAACA 170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTGCACGAAGG		167	TTCTTTGCCGCGTAACTGACTGCTT	
170 TCGCGCCTCGCTAGACCTTTTATTG TCAATAAAAGGTCTAGCGAGGCGCG 171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTGCTCGTGTTCA		168	TTTTATGTGCCAAGGGGTTAACCGA	
171 TACAAATGCGTGAGAGCTCCCAACT TAGTTGGGAGCTCTCACGCATTTGT 172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTCA		· 169	TTGTTACTGTGGTTCACGGCAGTCC	
172 TCGCGCAGATTATAGACCCGAATGT TACATTCGGGTCTATAATCTGCGCG 173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTCA	<b>3</b> 5 .	170	TCGCGCCTCGCTAGACCTTTTATTG	
173 TCAAATAACGCCGCTGAATCGGCGT TACGCCGATTCAGCGGCGTTATTTG 174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTCA		171	TACAAATGCGTGAGAGCTCCCAACT	
174 TCCTTCGTGCATCGGTGATGATGTT TAACATCATCACCGATGCACGAAGG 40 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTGCTCGTGTTCA		172	TCGCGCAGATTATAGACCCGAATGT	
40 175 TTGAACACGAGCAACACTCCAACGC TGCGTTGGAGTGTTGCTCGTGTTCA		173	TCAAATAACGCCGCTGAATCGGCGT	
TO THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF TH		174	TCCTTCGTGCATCGGTGATGATGTT	I the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec
176 TCAGCAGATCCTTCGTAGCGGTCGT TACGACCGCTACGAAGGATCTGCTG	40	175	TTGAACACGAGCAACACTCCAACGC	
		176	TCAGCAGATCCTTCGTAGCGGTCGT	TACGACCGCTACGAAGGATCTGCTG

İ	177		TGGAACCTGGTGAGTTGTGCCTCAT	TATGAGGCACAACTCACCAGGTTCC
	178		TTCATAAGCGACAATCGCGGGCTTA	TTAAGCCCGCGATTGTCGCTTATGA
	179		TCCCAACGTCACTGAAGCTCACAGT	TACTGTGAGCTTCAGTGACGTTGGG
	180		TTGTCAGAGCCCGCGACTCAGACGG	TCCGTCTGAGTCGCGGGCTCTGACA
5	181		TTACACGAAGCCTCTCCGTGGTCCA	TTGGACCACGGAGAGGCTTCGTGTA
!	182		TCTCAGAAGTCCTCGGCGAACTGGG	TCCCAGTTCGCCGAGGACTTCTGAG
	183		TATCCTTTTATCTACTCCGCGGCGA	TTCGCCGCGGAGTAGATAAAAGGAT
	184		TAGGCGTGCAGCAACAGGATAAACC	TGGTTTATCCTGTTGCTGCACGCCT
	185		TACTCTCGAGGGAGTCTCTGGCACA	TTGTGCCAGAGACTCCCTCGAGAGT
10	186		TTTGCCAGGTCCATCGAGACCTGTT	TAACAGGTCTCGATGGACCTGGCAA
	187		TTCCACTATAACTGCGGGTCCGTGT	TACACGGACCCGCAGTTATAGTGGA
	188		TGCCCAGTCGGCTCTAACAAGTTCG	TCGAACTTGTTAGAGCCGACTGGGC
	189		TCGGAACGGATAATCGGCGTCAGGT	TACCTGACGCCGATTATCCGTTCCG
	190		TTAAAATAAGCGCCTGGCGGGAGGA	TTCCTCCCGCCAGGCGCTTATTTTA
15	191		TGCGCACTCGTGAAACCTTTCTCGC	TGCGAGAAAGGTTTCACGAGTGCGC
	192		TAGTTTGCCAGGTACTGGCAAGTGC	TGCACTTGCCAGTACCTGGCAAACT
•	193		TACAACGAGGGATGTCCAGCGGCAT	TATGCCGCTGGACATCCCTCGTTGT
	194		TTTCGCAGCACCCGCTAGGTACAGT	TACTGTACCTAGCGGGTGCTGCGAA
	195		TTAACCCGATTTTTGCGACTCTGCC	TGGCAGAGTCGCAAAAATCGGGTTA
20	196		TCGTCGCATTGCAAGCGTAGGCTTG	TCAAGCCTACGCTTGCAATGCGACG
	197		TGAGCTGACGTCACCATCAGAGGAA	TTTCCTCTGATGGTGACGTCAGCTC
	198		TGGAGGCTGGGGGTCGCGCTTAAGT	TACTTAAGCGCGACCCCCAGCCTCC
	199		TTTGTGGGAACCGCACTAGCTGGCT	TAGCCAGCTAGTGCGGTTCCCACAA
	200		TCCCTCGCACTGTGTTCACCCTCTT	TAAGAGGGTGAACACAGTGCGAGGG
25	201		TTCATTGACTCGAATCCGCACAACG	TCGTTGTGCGGATTCGAGTCAATGA
	202		TACAGGGGTTGGCCTTCGTACGTAC	TGTACGTACGAAGGCCAACCCCTGT
	203		TAGGCCGTGCAACATCACACAGGAT	TATCCTGTGTGATGTTGCACGGCCT
	204		TGGGCCGTGGTCACGTAATATTGGC	TGCCAATATTACGTGACCACGGCCC
	205		TGCGCGGACATGAAACGACAAGGCC	TGGCCTTGTCGTTTCATGTCCGCGC
30	206		TCTTATTGGGTGCCGGTGTCGGATT	TAATCCGACACCGGCACCCAATAAG
	207		TGGGGCGGTTACCAAAAAATCCGAT	TATCGGATTTTTTGGTAACCGCCCC
		4	TCCGTCGCATACCGGCTACGATCAA	TTTGATCGTAGCCGGTATGCGACGG
		5	TATGGCCGTGCTGGGGACAAGTCAA	TTTGACTTGTCCCCAGCACGGCCAT
	210		TACGAAAAAGTGTGCGGATCCCCT	TAGGGGATCCGCACACTTTTTCGT
35	211		TCCAAGTACACCGCACGCATGTTTA	TTAAACATGCGTGCGGTGTACTTGG
	212		TATCGTGCGTGGAGTGTCGCATCTA	TTAGATGCGACACTCCACGCACGAT
	213		TTCCAGATACCGCCCGAACTTTGA	TTCAAAGTTCGGGGCGGTATCTGGA
	214		TTCTGCTGGCAGCACGTGAAGTGGC	TGCCACTTCACGTGCTGCCAGCAGA
	215		TTTGAAATTGCTCTGCCGTCAGTCA	TTGACTGACGGCAGAGCAATTTCAA
40	216		TAGTCAGGCGAGATGTTCAGGCAGC	TGCTGCCTGAACATCTCGCCTGACT
	217		TACAAGCCGACGTTAAGCCCGCCCA	TTGGGCGGCTTAACGTCGGCTTGT
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	218	TCCCTAATGAGGCCAGTAACCTGCA	TTGCAGGTTACTGGCCTCATTAGGG
	219	TGTGAGACACACATCCCCTCCAATG	TCATTGGAGGGGATGTGTGTCTCAC
	220	TCGACGGATGCAGAGTTCAGTGGTC	TGACCACTGAACTCTGCATCCGTCG
	221	TCCCGCATGCCTGGCGGTATTACAA	TTTGTAATACCGCCAGGCATGCGGG
5	222	TTTAGCAAAGCGGCGCCGTTAGCAA	TTTGCTAACGGCGCCGCTTTGCTAA
	223	TCCCGACACGGGTCAGCGTAATAAT	TATTATTACGCTGACCCGTGTCGGG
	224	TGCGACGGCCCTGAGGTATGTCGTC	TGACGACATACCTCAGGGCCGTCGC
	225	TCAAAAGTGTGTTCCCTTGCGCTTG	TCAAGCGCAAGGGAACACACTTTTG
	226	TTCTCGAAGCACAGCCCGGTTATTG .	TCAATAACCGGGCTGTGCTTCGAGA
10	227	TATGCTAACCGTTGGCCATGGAACT	TAGTTCCATGGCCAACGGTTAGCAT
	228	TCTTGCGGAGTGTTAGCCCAGCGGT	TACCGCTGGGCTAACACTCCGCAAG
	229	TTGCTCCCTAGGCGCTCGGAGGAGT	TACTCCTCCGAGCGCCTAGGGAGCA
	230	TCCAATGCCTTTGAGTAAGCGATGG	TCCATCGCTTACTCAAAGGCATTGG
	231	TAGCAGATAACGTCCCAATGACGCC	TGGCGTCATTGGGACGTTATCTGCT
15	232	TTTGACCATTACGTGTTGCGCCCAT	TATGGGCGCAACACGTAATGGTCAA
	233	TTCGCGTATTTGCGGAATTCGTCTG	TCAGACGAATTCCGCAAATACGCGA
	234	TCTGCGTGTCAACAATGTCCCGCAG	TCTGCGGGACATTGTTGACACGCAG
	235	TTCTGGTGCCACGCAAGGTCCACAG	TCTGTGGACCTTGCGTGGCACCAGA
	236	TCTCCGGGAGGTCACTTAATTGCGG	TCCGCAATTAAGTGACCTCCCGGAG
20	237	TTTTCGTGATTGCCCGGAGGAGGC	TGCCTCCTCCGGGCAATCACGAAAA
•	238	TTCGGGATGTAGCTGGGGCTACCGG	TCCGGTAGCCCCAGCTACATCCCGA
	239	TCGAGCCAACGCAAACACGTCCTTG	TCAAGGACGTGTTTGCGTTGGCTCG
	240	TGCAAAGCCTTTGTGGGGCGGTAGT	TACTACCGCCCCACAAAGGCTTTGC
	241	TATTCGACCGGAAATGAGGTCTTCG	TCGAAGACCTCATTTCCGGTCGAAT
25	242	TTTCGCTTGCTGAGTTGCTCTGTTC	TGAACAGAGCAACTCAGCAAGCGAA
	243	TCGCGTGAAGACCCCATTCCCGAGT	TACTCGGGAATGGGGTCTTCACGCG
	244	TAACCGTATTCGCGGTCACTTGTGG	TCCACAAGTGACCGCGAATACGGTT
	245	TGGGGCCAACCGTTTCGAGGCGTAT	TATACGCCTCGAAACGGTTGGCCCC
	246	TTTCGGCTGGCAGTCCAAACGGCTT	TAAGCCGTTTGGACTGCCAGCCGAA
30	247	TGGGTGTGGTTAGAATGCACGGTTC	TGAACCGTGCATTCTAACCACACCC
	248	TGCGAGGACCGAACTAGACAAACGG	TCCGTTTGTCTAGTTCGGTCCTCGC
	249	TACGCACGCGTGACCGAAGTTGCTG	TCAGCAACTTCGGTCACGCGTGCGT
	250	TTAAAAGGTCGCTTTGAAAGGGGGA	TTCCCCCTTTCAAAGCGACCTTTTA
	251	TTGCGATCGCTAACTGCTGGGACAA	TTTGTCCCAGCAGTTAGCGATCGCA
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	253	TATGCTGACATGTCGTGCACCTCGT	TACGAGGTGCACGACATGTCAGCAT
	254	TTGTGGTTAAAGCGTCCGTTCAACG	TCGTTGAACGGACGCTTTAACCACA
	255	TCGTTCACACCGGCGTAAGCTGCGT	TACGCAGCTTACGCCGGTGTGAACG
	256	TCCTATCCCGGCGAGAACTTCTGTG	TCACAGAAGTTCTCGCCGGGATAGG
40	257	TGTCTGCACTCACGCAGCGGAGGGA	TTCCCTCCGCTGCGTGAGTGCAGAC
	258	TGCACGAGTTGGTGCTCGGCAGATT	TAATCTGCCGAGCACCAACTCGTGC

ſ			TGACGAACGTGTGTCGTGCGACGTT
	259	17010010007100710	TGACCATGCTAGGATAAGCGCGCAT
	260	TATGCGCGCTTATCCTAGCATGGTC	TCCTCATGTCGAGACGAAAACGTGA
	261	TTCACGTTTTCGTCTCGACATGAGG	TGCCGTATCCTAAGGATGAGGCACA
	262	TTGTGCCTCATCCTTAGGATACGGC	
5	263	TAGGTGGTGTGGGTCAACCGCTTTA	TTAAAGCGGTTGACCCACACCACCT
	264	TCTGGATCGAAGGGACTGCAAGCTC	TGAGCTTGCAGTCCCTTCGATCCAG
	265	TTAGATCAACTCGCGTACGCATGGA	TTCCATGCGTACGCGAGTTGATCTA
	266	TGATCCTGCGGAGAGAGAGTGCAG	TCTGCACTCTCTTCTCCGCAGGATC
	267	TTACGTGTGGAGATGCCCCGAACCG	TCGGTTCGGGGCATCTCCACACGTA
10	268	TGCGCTATGTCAATCGTGGGCGTAG	TCTACGCCCACGATTGACATAGCGC
	269	TAGCGAGGTTTCTAGCGTCGACACC	TGGTGTCGACGCTAGAAACCTCGCT
	270	TACCCAGGTTTTGCCGTTGTGGAAT	TATTCCACAACGGCAAAACCTGGGT
	271	TCCCTGTTAACGGCTGCGTAGTCTC	TGAGACTACGCAGCCGTTAACAGGG
	272	TAGGCCGATTTCACCCGCCAATTGC	TGCAATTGGCGGGTGAAATCGGCCT
15	273	TGAGCCCTCACTCCTTGCCCTTTGA	TTCAAAGGGCAAGGAGTGAGGGCTC
	274	TGGGTGGACATCCGCCTCGCAGTCA	TTGACTGCGAGGCGGATGTCCACCC
	275	TGATGGCTGAGAACCGTGCTACGAT	TATCGTAGCACGGTTCTCAGCCATC
	276	TTCGACGTTAGGAGTGCTGCCAGAA	TTTCTGGCAGCACTCCTAACGTCGA
	277	TCGAATGGGTCTGGACCTTGCATAG	TCTATGCAAGGTCCAGACCCATTCG
20	278	TGTGCACCAGACATTCGAACTCGGA	TTCCGAGTTCGAATGTCTGGTGCAC
	279	TAGAGGCCCCGTATATCCCATCCAT	TATGGATGGGATATACGGGGCCTCT
	280	TAACGCCTGTTCAGAGCATCAGCGG	TCCGCTGATGCTCTGAACAGGCGTT
	281	TAAGGCTCAACACGCCTATGTGCGC	TGCGCACATAGGCGTGTTGAGCCTT
	282	TAGTCCGTGTTGCCAGATTGGCTCG	TCGAGCCAATCTGGCAACACGGACT
25	283	TATGTCCCATGTAAAGACGCGTGTG	TCACACGCGTCTTTACATGGGACAT
	284	TATGGAGTCTGCTCACGCCCAAAGG	TCCTTTGGGCGTGAGCAGACTCCAT
	285	TCGGCCTCCAACAAGGAGCACTAAC	TGTTAGTGCTCCTTGTTGGAGGCCG
	286	TCAGAGCCGTGGCAACATTGCGAGC	TGCTCGCAATGTTGCCACGGCTCTG
	287	TTCATTTGAATGAGGTGCGCACCGG	TCCGGTGCGCACCTCATTCAAATGA
30	288	TGACGTACCGGAAGCGCCGTATAAA	TTTTATACGGCGCTTCCGGTACGTC
	289	TATGCGAGCAATGGGATCCGGATTC	TGAATCCGGATCCCATTGCTCGCAT
	290	TAGAGTGAGGCCTCCCTGACCAGTG	TCACTGGTCAGGGAGGCCTCACTCT
	291	TCGCACCGTAAGTAGATTTGCCCGC	TGCGGGCAAATCTACTTACGGTGCG
	292	TTGAACCTTTGAGCACGTCGTGCGC	TGCGCACGACGTGCTCAAAGGTTCA
<b>35</b> .	293	TTCCGCCTTTTTGGTTACCTCGAAG	TCTTCGAGGTAACCAAAAAGGCGGA
	294	TGAACGCCAACGGCACTAACACATC	TGATGTGTTAGTGCCGTTGGCGTTC
•	295	TCCGACAGCAGCCAAGACGTCCCAG	TCTGGGACGTCTTGGCTGCTGTCGG
	296	TCATAAAAAAACCTGGGGCTCTGCG	TCGCAGAGCCCCAGGTTTTTTATG
	297	TTGCCAACTGTGCAGACCGGACTTA	TTAAGTCCGGTCTGCACAGTTGGCA
40	298	TGGCGAAAGAGCGAAACCGGCTCGT	TACGAGCCGGTTTCGCTCTTTCGCC
40	299	TGGGATGCGTATTTTAGCGAACACG	TCGTGTTCGCTAAAATACGCATCCC
	799	TOOGREGOOTATTTTAOOGREGOO	

ı	300	TTGGGATTCAGCGACCAGTACGCGA	TTCGCGTACTGGTCGCTGAATCCCA
	301	TCCCGATATTCGCCCGGCCTATTCG	TCGAATAGGCCGGGCGAATATCGGG
	302	TCGAGAAGATGCCTCACGCAACCAA	TTTGGTTGCGTGAGGCATCTTCTCG
	303	TAACCTTGACCCGTGGATGACGCTA	TTAGCGTCATCCACGGGTCAAGGTT
5		TTTGCAACGGCTGGTCAACGTCAA	TTTGACGTTGACCAGCCCGTTGCAA
		TCGCATAGGTTGCCGATTTCGTCAA	TTTGACGAAATCGGCAACCTATGCG
	306	TGCTTCCGGATGAACGGGATGGTTG	TCAACCATCCCGTTCATCCGGAAGC
	307	TCCCTCCATGTTCTTCGAACGGTTT	TAAACCGTTCGAAGAACATGGAGGG
	308	TTTGATGGGCGGCAATGCTCTTGCT	TAGCAAGAGCATTGCCGCCCATCAA
10	309	TATTGTGAGATGCGCCAAATTCCCC	TGGGGAATTTGGCGCATCTCACAAT
	310	TTCAGCACAGCCAGACGGTCAACTT	TAAGTTGACCGTCTGGCTGTGCTGA
	311	TACTCCACTCCTCGGTGGCAAACTA	TTAGTTTGCCACCGAGGAGTGGAGT
	312	TTCTGGGCATGCCTGGACGGAGACG	TCGTCTCCGTCCAGGCATGCCCAGA
	313	TTCTCAACTCCGGTACGACGAAACA	TTGTTTCGTCGTACCGGAGTTGAGA
15	314	TTTGCGTGGTCAAAGGCGCAACGTG	TCACGTTGCGCCTTTGACCACGCAA
	315	TAGACAGCGATCCGCGGCTCATGAT	TATCATGAGCCGCGGATCGCTGTCT
	316	TCGCGTCTCTAACTGAGAGCAGCCA	TTGGCTGCTCTCAGTTAGAGACGCG
	317	TAGGCGCACATGTACGGACATTCAG	TCTGAATGTCCGTACATGTGCGCCT
	318	TGATGAGTGGCACGTCGGTGTGTAA	TTTACACACCGACGTGCCACTCATC
20	319	TTGATCCATATTGTCGGACGTTGCG	TCGCAACGTCCGACAATATGGATCA
	320	TACCTGCCGGGAGTTCATAGGCTAG	TCTAGCCTATGAACTCCCGGCAGGT
	321	TAGCATTGGCGTTTTTCCGCAACGA	TTCGTTGCGGAAAAACGCCAATGCT
	322	TGGTAATATTCAGCGCGACCGCTCA	TTGAGCGGTCGCGCTGAATATTACC
	323	TATAGCGTACGACGAGGTGACGCGC	TGCGCGTCACCTCGTCGTACGCTAT
25	324	TTAGGTCACGATGCGTTTGACGCTA	TTAGCGTCAAACGCATCGTGACCTA
	325	TACTGCCCGTACCTCTGGTTCTGGC	TGCCAGAACCAGAGGTACGGGCAGT
	326	TCCTTTGGCCTGAAGTTGTCGTAGC	TGCTACGACAACTTCAGGCCAAAGG
	327	TGTGCCCCACGAGCGTATCGTTGTA	TTACAACGATACGCTCGTGGGGCAC
	328	TAGGCGCTACGTGGGCCTGGAGCA	TTTGCTCCAGGCCCACGTAGCGCCT
30	329	TGGGTGCTACCATTGCATTAGTCCG	TCGGACTAATGCAATGGTAGCACCC
	330	TACCACGCGCGTACGTGTAACCGAG	TCTCGGTTACACGTACGCGCGTGGT
	331	TCCATGATGCATTGGGTGCATTTAG	TCTAAATGCACCCAATGCATCATGG
	332	TGGTCCGGCCCTACGAAACGTTCGA	TTCGAACGTTTCGTAGGGCCGGACC
	333	TCCGTGTGGCTGGAGATTCGTGTGA	TTCACACGAATCTCCAGCCACACGG
35	334	TGTTAGGGCGACGCATATTGGCACA	TTGTGCCAATATGCGTCGCCCTAAC
	335	TGGGTCAGTCAGGTGCGTTAGGATC	TGATCCTAACGCACCTGACTGACCC
	336	TGCCGTGAAGTCGAATGCAGATCGA	TTCGATCTGCATTCGACTTCACGGC
	337	TGCCACCACCCAGTGCATTCAGGTA	TTACCTGAATGCACTGGGTGGTGGC
	338	TGAGCTTAGTTTGCGGTCATCGGGC	TGCCCGATGACCGCAAACTAAGCTC
40	339	TTGTTTGCCGCCATTAGGGAGTAAC	TGTTACTCCCTAATGGCGGCAAACA
	340	TGCTCCGCTGGATGTGCCGGTTTAG	TCTAAACCGGCACATCCAGCGGAGC

	341	TCGGTAGCATGCGAGATCCCTGTTA	TTAACAGGGATCTCGCATGCTACCG
	342	TCTACGCTCTACCAGTTGCCTGCGA	TTCGCAGGCAACTGGTAGAGCGTAG
	343	TGTGCCTCCTGCTGTATTTGCCAAG	TCTTGGCAAATACAGCAGGAGGCAC
[	344	TTTGCGACTCGACTTGGACGAGTAG	TCTACTCGTCCAAGTCGAGTCGCAA
5	345	TTCTGGGAGCTGTTTACTCCAGCCA	TTGGCTGGAGTAAACAGCTCCCAGA
[	346	TTGCACGCGGAACTCCCTTTACCAT	TATGGTAAAGGGAGTTCCGCGTGCA
	347	TTGGCAGCAAATGAATCGAAAGCAC	TGTGCTTTCGATTCATTTGCTGCCA
T T	348	TAACTGGTGACGCGGTACAGCGAAG	TCTTCGCTGTACCGCGTCACCAGTT
Ī	349	TAGACGATTACGCTGGACGCCGTCG	TCGACGCGTCCAGCGTAATCGTCT
10	350	TATGCCCTCCTTCATGGAAAGGGTT	TAACCCTTTCCATGAAGGAGGGCAT
Ţ	351	TATTCTCGGAGCGTATGCGCCAGAA	TTTCTGGCGCATACGCTCCGAGAAT
Ī	352	TATAGCGGAGTTTGGGTACGCGAAC	TGTTCGCGTACCCAAACTCCGCTAT
	353	TACCTACGCATACCGCTTGGCGAGG	TCCTCGCCAAGCGGTATGCGTAGGT
	354	TGATTACCTGAATGGCCAAGCGAGC	TGCTCGCTTGGCCATTCAGGTAATC
15	355	TCCTGTTAGCATCACGGCGCTTAGG	TCCTAAGCGCCGTGATGCTAACAGG
	356	TCGGAATGATGCGCTCGACAACGCT	TAGCGTTGTCGAGCGCATCATTCCG
	357	TTGAGAGAGGCGTTGGTTAAGGCAA	TTTGCCTTAACCAACGCCTCTCTCA
•	358	TAAGCAGGCGAAGGGATACTCCTCG	TCGAGGAGTATCCCTTCGCCTGCTT
	359	TTCACGACAGACGGGCCGAGATTAC	TGTAATCTCGGCCCGTCTGTCGTGA
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	361	TGCTGGTTGCGGTAGGATCGCATAT	TATATGCGATCCTACCGCAACCAGC
1	362	TTTGTGAATCCGTTCTGTCCCCGAC	TGTCGGGGACAGAACGGATTCACAA
	363	TTGGGCTCCTCTGAGGCGAGATGGC	TGCCATCTCGCCTCAGAGGAGCCCA
	364	TGGATAGAGTGAATCGACCGGCAAC	TGTTGCCGGTCGATTCACTCTATCC
25	365	TTGCACCGAACGTGCACGAGTAATT	TAATTACTCGTGCACGTTCGGTGCA
	366	TGCCAGTATTCTCGGGTGTTGGACG	TCGTCCAACACCCGAGAATACTGGC
	367	TTCGCTACCTAAGACCGGGCCATAC	TGTATGGCCCGGTCTTAGGTAGCGA
	368	TTGGCATTGACGAGCAGCAGTCAGT	TACTGACTGCTGCTCAATGCCA
	369 ·	TCGCGTCCCAGCGCCCTTGGAGTAT	TATACTCCAAGGGCGCTGGGACGCG
30	370	TATGAAGCCTACCGGGCGACTTCGT	TACGAAGTCGCCCGGTAGGCTTCAT
	371	TCCAGACAGATGGCCTGGAACCATG	TCATGGTTCCAGGCCATCTGTCTGG
	372	TTGGCGTGGGACCATCTCAAAGCTA	TTAGCTTTGAGATGGTCCCACGCCA
	373	TCCGCATGGGAACACGTGTCAAGGT	TACCTTGACACGTGTTCCCATGCGG
	374	TGCCCACTCGTCAGCTGGACGTAAT	TATTACGTCCAGCTGACGAGTGGGC
35	375	TATTACGGTCGTGATCCAGAAAGCG	TCGCTTTCTGGATCACGACCGTAAT
	376	TTGCGAGGTGAGCACCTACGAGAGA	TTCTCTCGTAGGTGCTCACCTCGCA
-	377	TGGGCCGCATTCTTGATGTCCATTC	TGAATGGACATCAAGAATGCGGCCC
:	378	TCCTCGGATGTGGGCTCTCGCCTAG	TCTAGGCGAGAGCCCACATCCGAGG
	379	TTAGGCATGTTGGCGTGAGCGCTAT	TATAGCGCTCACGCCAACATGCCTA
40	380	TCGATACGAACGAGGATGTCCGCCT	TAGGCGGACATCCTCGTTCGTATCG
	381	TTACGCCGGTTAGCACGGTGCGCTA	TTAGCGCACCGTGCTAACCGGCGTA

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·	382	TCATACGATGTCCGGGCCGTGTCGC	TGCGACACGGCCCGGACATCGTATG
	383	TATCCGCAGTTGTATGGCGCGTTAT	TATAACGCGCCATACAACTGCGGAT
	384	TGGGTAAGGGACAAAGATGGGATGG	TCCATCCCATCTTTGTCCCTTACCC
	385	TATTGGAGTGTTTTGGTGAATCCGC	TGCGGATTCACCAAAACACTCCAAT
5	386	TGAACCGAGCCAACGTATGGACACG	TCGTGTCCATACGTTGGCTCGGTTC
	387	TGCCGTCAAGCTTAAGGTTTTGGGC	TGCCCAAAACCTTAAGCTTGACGGC
	388	TACCTGCTTTTGGGTGGGTGATATG	TCATATCACCCACCCAAAAGCAGGT
	389	TAATCGTGGGCGCAGCAAACGTATA	TTATACGTTTGCTGCGCCCACGATT
	390	TGTCGCCGGATTGCTCAGTATAAGC	TGCTTATACTGAGCAATCCGGCGAC
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	392	TATCCGGGTGGGCGATACAAGAGAT	TATCTCTTGTATCGCCCACCCGGAT
	393	TTTCCGCATGAGTCAGCTTTGAAAA	TTTTCAAAGCTGACTCATGCGGAA
	394	TGCAAAGTCCCACTGGCAAGCCGAT	TATCGGCTTGCCAGTGGGACTTTGC
•	395	TCGACCTCGGCTTCATCGTACACAT	TATGTGTACGATGAAGCCGAGGTCG
15	396	TCTCATGAGCGCAGTTGTGCGTGAG	TCTCACGCACAACTGCGCTCATGAG
İ	397	TCAGATGAAGGATCCACGGCCGGAG	TCTCCGGCCGTGGATCCTTCATCTG
	398	TTCAAAGGCTCTTGGATACAGCCGT	TACGGCTGTATCCAAGAGCCTTTGA
	399	TTCCGCTAATTTCCAATCAGGGCTC	TGAGCCCTGATTGGAAATTAGCGGA
	8	TCCGTTTGCGGTCGTCCTTGCTCAA	TTTGAGCAAGGACGACCGCAAACGG
20	9	TTTCGCTTTCGTGGCTGCACTTCAA	TTTGAAGTGCAGCCACGAAAGCGAA
	402	TCTTAGTTGGGGCGCGGTATCCAGA	TTCTGGATACCGCGCCCCAACTAAG
	403	TGCTCTAATGCCGTGGAGTCGGAAC	TGTTCCGACTCCACGGCATTAGAGC
	404	TCCGATTACAAATTGACTGACCGCA	TTGCGGTCAGTCAATTTGTAATCGG
	405	TAGACGTACGTGAGCCTCCCGTGTC	TGACACGGGAGGCTCACGTACGTCT
25	406	TAATGGAGCGATACGATCCAACGCA	TTGCGTTGGATCGTATCGCTCCATT
	407	TGGAGGCGCTGTACTGATAGGCGTA	TTACGCCTATCAGTACAGCGCCTCC
	408	TTGTTTTTGAATTGACCACACGGGA	TTCCCGTGTGGTCAATTCAAAAACA
İ	409	TCATGTCTGGATGCGCTCAATGAAG	TCTTCATTGAGCGCATCCAGACATG
	410	TGCCCGCTAATCCGACACCCAGTTT	TAAACTGGGTGTCGGATTAGCGGGC
30	411	TCCATTGACAGGAGAGCCATGAGCC	TGGCTCATGGCTCTCCTGTCAATGG
	412	TGAATCACCGAATCACCGACTCGTT	TAACGAGTCGGTGATTC
į	413	TAACCAGCCGCAGTAGCTTACGTCG	TCGACGTAAGCTACTGCGGCTGGTT
į	414	TTTTTCTGAGGGACACGCGGGCGTT	TAACGCCCGCGTGTCCCTCAGAAAA
	415	TGGTGCTCCGTTTGATCGATCCTCC	TGGAGGATCGATCAAACGGAGCACC
35	416	TCCGCTTAGGCCATACTCTGAGCCA	TTGGCTCAGAGTATGGCCTAAGCGG
	417	TTAAGACATACCGACGCCCTTGCCT	TAGGCAAGGGCGTCGGTATGTCTTA
	418	TGTTCCCGACGCCAGTCATTGAGAC	TGTCTCAATGACTGGCGTCGGGAAC
	419	TTAAAAGTTTCGCGGAGGTCGGGCT	TAGCCCGACCTCCGCGAAACTTTTA
	420	TCGGTCCAGACGAGCTGAGTTCGGC	TGCCGAACTCAGCTCGTCTGGACCG
40	421	TCGGCGTAGCGGCTACGGACTTAAA	TTTTAAGTCCGTAGCCGCTACGCCG
ì	422	TGCTTGGATGCCCATGCGGCAAGGT	TACCTTGCCGCATGGGCATCCAAGC

	423	TAGCGGGATCCCAGAGTTTCGAAAA	TTTTTCGAAACTCTGGGATCCCGCT
	424	TGAGCTTGAGAGCGAGGTCATCCTC	TGAGGATGACCTCGCTCTCAAGCTC
	425	TGCATCGGCCGTTTTGACCATATTC	TGAATATGGTCAAAACGGCCGATGC
	426	TCATAGCGCTGCACGTTTCGACCGC	TGCGGTCGAAACGTGCAGCGCTATG
5	427	TACCCGACAACCACCAATTCAAAAA	TTTTTTGAATTGGTGGTTGTCGGGT
	428	TGCGAACACTCATAAGAGCGCCCTG	TCAGGGCGCTCTTATGAGTGTTCGC
	429	TCCGCCGAGTGTAGAGAGACTCCGA	TTCGGAGTCTCTCTACACTCGGCGG
	430	TGACATCGGGAGCCGGAAACATGAG	TCTCATGTTTCCGGCTCCCGATGTC
	431	TTCGTGTAGACTCGGCGACAGGCGT	TACGCCTGTCGCCGAGTCTACACGA
10	432	TATGCGCATATACJGACTGCGCAGG	TCCTGCGCAGTCAGTATATGCGCAT
	433	TACAAGCGAACCCGAGTTTTGATGA	TTCATCAAAACTCGGGTTCGCTTGT
	434	TGCATGAGACTCCGCGAAGACATGT	TACATGTCTTCGCGGAGTCTCATGC
	435	TTCCTACATGTCGCGTCACGATCAC	TGTGATCGTGACGCGACATGTAGGA
	436	TGACCGATCGCGAAGTCGTACACAT	TATGTGTACGACTTCGCGATCGGTC
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	438	TACCGATAAGACTTGCATCCGAACG	TCGTTCGGATGCAAGTCTTATCGGT
	439	TTCCATAACCAGTCCGAAGTGCCGG	TCCGGCACTTCGGACTGGTTATGGA
	440	TACGCGCCCTGCATCTCGTATTTAA	TTTAAATACGAGATGCAGGGCGCGT
	441	TAGACCGCATCAATTGGCGCGTACC	TGGTACGCGCCAATTGATGCGGTCT
20	442	TAGAGGCTTGGCAAGTAGGGACCCT	TAGGGTCCCTACTTGCCAAGCCTCT
	443	TGCAATGGACGCCAGACGATACCGG	TCCGGTATCGTCTGGCGTCCATTGC
	444	TGCTGGACTTAGTCGTGTTCGGCGG	TCCGCCGAACACGACTAAGTCCAGC
	445	TAGGCATCGTGCCGGATTGCTCCCT	TAGGGAGCAATCCGGCACGATGCCT
	446	TTGCGCATGTCGACGTTGAACAAAG	TCTTTGTTCAACGTCGACATGCGCA
25	447	TTTCGGGTCACATCCGATGCCATAC	TGTATGGCATCGGATGTGACCCGAA
	448	TACCCATCGCCGGAAAGCGATGTTG	TCAACATCGCTTTCCGGCGATGGGT
	449	TAAGCGCTGACTCGGCTAAGAATCA	TTGATTCTTAGCCGAGTCAGCGCTT
	450	TACTTCCAAGTCCTTGACCGTCCGA	TTCGGACGGTCAAGGACTTGGAAGT
	451	TTCTCAATATTCCCGTAGTCGCCCA	TTGGGCGACTACGGGAATATTGAGA
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	453	TCGTCCTCCATGTTGTCACGAACAG	TCTGTTCGTGACAACATGGAGGACG
	454	TTGCGCAGACCTACCTGTCTTTGCT	TAGCAAAGACAGGTAGGTCTGCGCA
	455	TATGGACGGCTTCGCAGTCCTCCTT	TAAGGAGGACTGCGAAGCCGTCCAT
	456	TTGAACGCTTTCTATGGGCCACGTA	TTACGTGGCCCATAGAAAGCGTTCA
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	458	TGTTCTTGCGCGATGAATCAGGACC	TGGTCCTGATTCATCGCGCAAGAAC
	459	TAGGGTACGTGTCGCAGCTTCGCGT	TACGCGAAGCTGCGACACGTACCCT
	460	TACCCTTGCTCCGCCATGTCTCTCA	TTGAGAGACATGGCGGAGCAAGGGT
	461	TGGGACAAGGATTGAAGCTGGCGTC	TGACGCCAGCTTCAATCCTTGTCCC
40	462	TTGTCGTTGCTCCCGAGTACCATTG	TCAATGGTACTCGGGAGCAACGACA
	463	TGTTGTCCGAGACGTTTGTGTCAGC	TGCTGACACAACGTCTCGGACAAC

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1	382	TCATACGATGTCCGGGCCGTGTCGC	TGCGACACGGCCCGGACATCGTATG
	383	TATCCGCAGTTGTATGGCGCGTTAT	TATAACGCGCCATACAACTGCGGAT
į	384	TGGGTAAGGGACAAAGATGGGATGG	TCCATCCCATCTTTGTCCCTTACCC
Ĺ	385	TATTGGAGTGTTTTGGTGAATCCGC	TGCGGATTCACCAAAACACTCCAAT
5	386	TGAACCGAGCCAACGTATGGACACG	TCGTGTCCATACGTTGGCTCGGTTC
	387	TGCCGTCAAGCTTAAGGTTTTGGGC	TGCCCAAAACCTTAAGCTTGACGGC
	388	TACCTGCTTTTGGGTGGGTGATATG	TCATATCACCCACCCAAAAGCAGGT
	389	TAATCGTGGGCGCAGCAAACGTATA	TTATACGTTTGCTGCGCCCACGATT
	390	TGTCGCCGGATTGCTCAGTATAAGC	TGCTTATACTGAGCAATCCGGCGAC
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	392	TATCCGGGTGGGCGATACAAGAGAT	TATCTCTTGTATCGCCCACCCGGAT
	393	TTTCCGCATGAGTCAGCTTTGAAAA	TTTTTCAAAGCTGACTCATGCGGAA
İ	394	TGCAAAGTCCCACTGGCAAGCCGAT	TATCGGCTTGCCAGTGGGACTTTGC
	395	TCGACCTCGGCTTCATCGTACACAT	TATGTGTACGATGAAGCCGAGGTCG
15	396	TCTCATGAGCGCAGTTGTGCGTGAG	TCTCACGCACAACTGCGCTCATGAG
į	397	TCAGATGAAGGATCCACGGCCGGAG	TCTCCGGCCGTGGATCCTTCATCTG
	398	TTCAAAGGCTCTTGGATACAGCCGT	TACGGCTGTATCCAAGAGCCTTTGA
	399	TTCCGCTAATTTCCAATCAGGGCTC	TGAGCCCTGATTGGAAATTAGCGGA
	8	TCCGTTTGCGGTCGTCCTTGCTCAA	TTTGAGCAAGGACGACCGCAAACGG
20	9	TTTCGCTTTCGTGGCTGCACTTCAA	TTTGAAGTGCAGCCACGAAAGCGAA
	402	TCTTAGTTGGGGCGCGGTATCCAGA	TTCTGGATACCGCGCCCCAACTAAG
	403	TGCTCTAATGCCGTGGAGTCGGAAC	TGTTCCGACTCCACGGCATTAGAGC
	404	TCCGATTACAAATTGACTGACCGCA	TTGCGGTCAGTCAATTTGTAATCGG
	405	TAGACGTACGTGAGCCTCCCGTGTC	TGACACGGGAGGCTCACGTACGTCT
25	406	TAATGGAGCGATACGATCCAACGCA	TTGCGTTGGATCGTATCGCTCCATT
·	407	TGGAGGCGCTGTACTGATAGGCGTA	TTACGCCTATCAGTACAGCGCCTCC
	408	TTGTTTTTGAATTGACCACACGGGA	TTCCCGTGTGGTCAATTCAAAAACA
	409	TCATGTCTGGATGCGCTCAATGAAG	TCTTCATTGAGCGCATCCAGACATG
	410	TGCCCGCTAATCCGACACCCAGTTT	TAAACTGGGTGTCGGATTAGCGGGC
30	411	TCCATTGACAGGAGAGCCATGAGCC	TGGCTCATGGCTCTCCTGTCAATGG
	412	TGAATCACCGAATCACCGACTCGTT	TAACGAGTCGGTGATTC
	413	TAACCAGCCGCAGTAGCTTACGTCG	TCGACGTAAGCTACTGCGGCTGGTT
	414	TTTTCTGAGGGACACGCGGGCGTT	TAACGCCCGCGTGTCCCTCAGAAAA
	415	TGGTGCTCCGTTTGATCGATCCTCC	TGGAGGATCGATCAAACGGAGCACC
35	416	TCCGCTTAGGCCATACTCTGAGCCA	TTGGCTCAGAGTATGGCCTAAGCGG
	417	TTAAGACATACCGACGCCCTTGCCT	TAGGCAAGGGCGTCGGTATGTCTTA
	418	TGTTCCCGACGCCAGTCATTGAGAC	TGTCTCAATGACTGGCGTCGGGAAC
	419	TTAAAAGTTTCGCGGAGGTCGGGCT	TAGCCCGACCTCCGCGAAACTTTTA
	420	TCGGTCCAGACGAGCTGAGTTCGGC	TGCCGAACTCAGCTCGTCTGGACCG
40	421	TCGGCGTAGCGGCTACGGACTTAAA	TTTTAAGTCCGTAGCCGCTACGCCG
	422	TGCTTGGATGCCCATGCGGCAAGGT	TACCTTGCCGCATGGGCATCCAAGC

5	424	TGAGCTTGAGAGCGAGGTCATCCTC TGCATCGGCCGTTTTGACCATATTC TCATAGCGCTGCACGTTTCGACCGC TACCCGACAACCACCAATTCAAAAA TGCGAACACTCATAAGAGCGCCCTG	TTTTTCGAAACTCTGGGATCCCGCT TGAGGATGACCTCGCTCTCAAGCTC TGAATATGGTCAAAACGGCCGATGC TGCGGTCGAAACGTGCAGCGCTATG TTTTTTGAATTGGTGGTTGTCGGGT TCAGGGCGCTCTTATGAGTGTTCGC TTCGGAGTCTCTCTACACTCGGCGG TCTCATGTTTCCGGCTCCCGATGTC TACGCCTGTCGCCGAGTCTACACGA TCCTGCGCAGTCAGATATATGCGCAT TTCATCAAAACTCGGGTTCGCTT
	425 426 427 428 429 430 431 432 433 434	TGCATCGGCCGTTTTGACCATATTC TCATAGCGCTGCACGTTTCGACCGC TACCCGACAACCACCAATTCAAAAA TGCGAACACTCATAAGAGCGCCCTG TCCGCCGAGTGTAGAGAGACTCCGA TGACATCGGGAGCCGGAAACATGAG TTCGTGTAGACTCGGCGACAGGCGT TATGCGCATATACTGACTGCGCAGG TACAAGCGAACCCGAGTTTTGATGA	TGAATATGGTCAAAACGGCCGATGC TGCGGTCGAAACGTGCAGCGCTATG TTTTTTGAATTGGTGGTTGTCGGGT TCAGGGCGCTCTTATGAGTGTTCGC TTCGGAGTCTCTCTACACTCGGCGG TCTCATGTTTCCGGCTCCCGATGTC TACGCCTGTCGCCGAGTCTACACCAA TCCTGCGCAGTCAAAACGGCCGATGTC
	426 427 428 429 430 431 432 433 434	TCATAGCGCTGCACGTTTCGACCGC TACCCGACAACCACCAATTCAAAAA TGCGAACACTCATAAGAGCGCCCTG TCCGCCGAGTGTAGAGAGACTCCGA TGACATCGGGAGCCGGAAACATGAG TTCGTGTAGACTCGGCGACAGGCGT TATGCGCATATACTGACTGCGCAGG TACAAGCGAACCCGAGTTTTGATGA	TGCGGTCGAAACGTGCAGCGCTATG TTTTTTGAATTGGTGGTTGTCGGGT TCAGGGCGCTCTTATGAGTGTTCGC TTCGGAGTCTCTCTACACTCGGCGG TCTCATGTTTCCGGCTCCCGATGTC TACGCCTGTCGCCGAGTCTACACGA TCCTGCGCAGTCAGTATATGCGCAT
	427 428 429 430 431 432 433 434	TACCCGACAACCACCAATTCAAAAA TGCGAACACTCATAAGAGCGCCCTG TCCGCCGAGTGTAGAGAGACTCCGA TGACATCGGGAGCCGGAAACATGAG TTCGTGTAGACTCGGCGACAGGCGT TATGCGCATATACJGACTGCGCAGG TACAAGCGAACCCGAGTTTTGATGA	TTTTTGAATTGGTGGTTGTCGGGT TCAGGGCGCTCTTATGAGTGTTCGC TTCGGAGTCTCTCTACACTCGGCGG TCTCATGTTTCCGGCTCCCGATGTC TACGCCTGTCGCCGAGTCTACACGA TCCTGCGCAGTCAGTATATGCGCAT
	428 429 430 431 432 433 434	TGCGAACACTCATAAGAGCGCCCTG TCCGCCGAGTGTAGAGAGACTCCGA TGACATCGGGAGCCGGAAACATGAG TTCGTGTAGACTCGGCGACAGGCGT TATGCGCATATACTGACTGCGCAGG TACAAGCGAACCCGAGTTTTGATGA	TCAGGGCGCTCTTATGAGTGTTCGC TTCGGAGTCTCTCTACACTCGGCGG TCTCATGTTTCCGGCTCCCGATGTC TACGCCTGTCGCCGAGTCTACACGA TCCTGCGCAGTCAGTATATGCGCAT
10	429 430 431 432 433 434	TCCGCCGAGTGTAGAGAGACTCCGA TGACATCGGGAGCCGGAAACATGAG TTCGTGTAGACTCGGCGACAGGCGT TATGCGCATATACTGACTGCGCAGG TACAAGCGAACCCGAGTTTTGATGA	TTCGGAGTCTCTCTACACTCGGCGG TCTCATGTTTCCGGCTCCCGATGTC TACGCCTGTCGCCGAGTCTACACGA TCCTGCGCAGTCAGTATATGCGCAT
10	430 431 432 433 434	TGACATCGGGAGCCGGAAACATGAG TTCGTGTAGACTCGGCGACAGGCGT TATGCGCATATACTGACTGCGCAGG TACAAGCGAACCCGAGTTTTGATGA	TCTCATGTTTCCGGCTCCCGATGTC TACGCCTGTCGCCGAGTCTACACGA TCCTGCGCAGTCAGTATATGCGCAT
10	431 432 433 434	TTCGTGTAGACTCGGCGACAGGCGT TATGCGCATATACTGACTGCGCAGG TACAAGCGAACCCGAGTTTTGATGA	TACGCCTGTCGCCGAGTCTACACGA TCCTGCGCAGTCAGTATATGCGCAT
10	432 433 434	TATGCGCATATACTGACTGCGCAGG TACAAGCGAACCCGAGTTTTGATGA	TCCTGCGCAGTCAGTATATGCGCAT
10	433 434	TACAAGCGAACCCGAGTTTTGATGA	
	434		TTCATCAAAACTCGGGTTCGCTTGT
		TGCATGAGACTCCGCGAAGACATGT	
	435	100,110,101010000,110,10,1101	TACATGTCTTCGCGGAGTCTCATGC
		TTCCTACATGTCGCGTCACGATCAC	TGTGATCGTGACGCGACATGTAGGA
	436	TGACCGATCGCGAAGTCGTACACAT	TATGTGTACGACTTCGCGATCGGTC
15	437	TGTCGCCAGGACTGGGCCGATGTGA	TTCACATCGGCCCAGTCCTGGCGAC
.  -	438	TACCGATAAGACTTGCATCCGAACG	TCGTTCGGATGCAAGTCTTATCGGT
	439	TTCCATAACCAGTCCGAAGTGCCGG	TCCGGCACTTCGGACTGGTTATGGA
	440	TACGCGCCCTGCATCTCGTATTTAA	TTTAAATACGAGATGCAGGGCGCGT
	441	TAGACCGCATCAATTGGCGCGTACC	TGGTACGCGCCAATTGATGCGGTCT
20	442	TAGAGGCTTGGCAAGTAGGGACCCT	TAGGGTCCCTACTTGCCAAGCCTCT
	443	TGCAATGGACGCCAGACGATACCGG	TCCGGTATCGTCTGGCGTCCATTGC
	444	TGCTGGACTTAGTCGTGTTCGGCGG	TCCGCCGAACACGACTAAGTCCAGC
	445	TAGGCATCGTGCCGGATTGCTCCCT	TAGGGAGCAATCCGGCACGATGCCT
	446	TTGCGCATGTCGACGTTGAACAAAG	TCTTTGTTCAACGTCGACATGCGCA
25	447	TTTCGGGTCACATCCGATGCCATAC	TGTATGGCATCGGATGTGACCCGAA
	448	TACCCATCGCCGGAAAGCGATGTTG	TCAACATCGCTTTCCGGCGATGGGT
Ţ.	449	TAAGCGCTGACTCGGCTAAGAATCA	TTGATTCTTAGCCGAGTCAGCGCTT
	450	TACTTCCAAGTCCTTGACCGTCCGA	TTCGGACGGTCAAGGACTTGGAAGT
	451	TTCTCAATATTCCCGTAGTCGCCCA	TTGGGCGACTACGGGAATATTGAGA
30	452	TAACAGTTCCTCTTTTTCCTGGCGC	TGCGCCAGGAAAAAGAGGAACTGTT
Ī	453	TCGTCCTCCATGTTGTCACGAACAG	TCTGTTCGTGACAACATGGAGGACG
	454	TTGCGCAGACCTACCTGTCTTTGCT	TAGCAAAGACAGGTAGGTCTGCGCA
	455	TATGGACGGCTTCGCAGTCCTCCTT	TAAGGAGGACTGCGAAGCCGTCCAT
Γ	456	TTGAACGCTTTCTATGGGCCACGTA	TTACGTGGCCCATAGAAAGCGTTCA
35	457	TTGAACCCTGCCGCGAGCGATAACC	TGGTTATCGCTCGCGGCAGGGTTCA
	458	TGTTCTTGCGCGATGAATCAGGACC	TGGTCCTGATTCATCGCGCAAGAAC
	459	TAGGGTACGTGTCGCAGCTTCGCGT	TACGCGAAGCTGCGACACGTACCCT
	460	TACCCTTGCTCCGCCATGTCTCTCA	TTGAGAGACATGGCGGAGCAAGGGT
t	461	TGGGACAAGGATTGAAGCTGGCGTC	TGACGCCAGCTTCAATCCTTGTCCC
40	462	TTGTCGTTGCTCCCGAGTACCATTG	TCAATGGTACTCGGGAGCAACGACA
ſ	463	TGTTGTCCGAGACGTTTGTGTCAGC	TGCTGACACAACGTCTCGGACAAC

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	464	TGCTGGTGAACACTCACGAACCGCT	TAGCGGTTCGTGAGTGTTCACCAGC
T	465	TGCAGACAGGGCAAATCGGTGCAAA	TTTTGCACCGATTTGCCCTGTCTGC
	466	TCCCATCACAACGAGTGGCGACTTT	TAAAGTCGCCACTCGTTGTGATGGG
<u></u>	467	TGCTTCTACAGCTGGCGTGCTAGCG	TCGCTAGCACGCCAGCTGTAGAAGC
5	468	TGAATGTGTGCCGACCATTCTAGCC	TGGCTAGAATGGTCGGCACACATTC
-	469	TCCAGCGGAAGTTAGAGCTCTGTGG	TCCACAGAGCTCTAACTTCCGCTGG
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Ī	471	TGCGGCTATGTGATGACGGCCTAGC	TGCTAGGCCGTCATCACATAGCCGC
	472	TAGTACACGGCCTGTTAGCGCTCC	TGGAGCGCTAACACGCCCGTGTACT
10	473	TTCCTGTGTGGTGGCGCACTCCCAC	TGTGGGAGTGCGCCACCACACAGGA
	474	TCCAACTAACCAATCGCGCGGATGA	TTCATCCGCGCGATTGGTTAGTTGG
	475	TAGTGAGTGACCAAGGCAGGAGCAA	TTTGCTCCTGCCTTGGTCACTCACT
	476	TCATCTTTCGCGGAGTTTATTGCGG	TCCGCAATAAACTCCGCGAAAGATG
1	477	TCTTCGTCCGGTTAGTGCGACAGCA	TTGCTGTCGCACTAACCGGACGAAG
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Ì	479	TCGCAGCAGCTGAACTCTAGCATTG	TCAATGCTAGAGTTCAGCTGCTGCG
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	481	TATTGAGAACTCGTGCGGGAGTTTG	TCAAACTCCCGCACGAGTTCTCAAT
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Ì	484	TAAACGCCGCCCTGAGACTATTGGG	TCCCAATAGTCTCAGGGCGGCGTTT
	485	TCTGAGTTGCCTGGAACGTTGGACT	TAGTCCAACGTTCCAGGCAACTCAG
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	489	TAACGCATCGTCCGTCAACTCATCA	TTGATGAGTTGACGGACGATGCGTT
	490	TTGGAGAGAGACTTCGGCCATTGTT	TAACAATGGCCGAAGTCTCTCCA
	491	TTTGCGCTCATTGGATCTTGTCAGG	TCCTGACAAGATCCAATGAGCGCAA
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	494	TCGACTGATGTGCAACCAGCAGCTG	TCAGCTGCTGGTTGCACATCAGTCG
	495	TGGTTGCTCATACGACGAGCGAGTG	TCACTCGCTCGTCGTATGAGCAACC
	1	0 TGTCCAACGCGCAACTCCGATTCAA	TTTGAATCGGAGTTGCGCGTTGGAC
•	.1	1 TTTGCCGCACCGTCCGTCATCTCAA	TTTGAGATGACGGACGGTGCGGCAA
35	498	TAGAACCTCCGCGCCTCCGTAGTAG	TCTACTACGGAGGCGCGGAGGTTCT
	499	TAAAGGAGCTTTCGCCCAACGTACC	TGGTACGTTGGGCGAAAGCTCCTTT
	500	TAGTGATTGTGCCACTCCACAGCTC	TGAGCTGTGGAGTGGCACAATCACT
	501	TGCGATCGTCGAGGGTTGAGCTGAA	TTTCAGCTCAACCCTCGACGATCGC
	502	TGGGAGACAGCCATTATGGTCCTCG	TCGAGGACCATAATGGCTGTCTCCC
40	503	TGAGACGCTGTCACTCCGGCAGAAC	TGTTCTGCCGGAGTGACAGCGTCTC
	504	TCCACCGGTCGCTTAAGATGCACTT	TAAGTGCATCTTAAGCGACCGGTGG

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[	505	TCGGCATAACGTCCAGTCCTGGGAC	TGTCCCAGGACTGGACGTTATGCCG
	506	TAAGCGGAACGGGTTATACCGAGGT	TACCTCGGTATAACCCGTTCCGCTT
	507	TTGCACACTAGGTCCGTCGCTTGAT	TATCAAGCGACGGACCTAGTGTGCA
Ì	508	TAGGGAACCGCGTTCAAACTCAGTT	TAACTGAGTTTGAACGCGGTTCCCT
5	509	TGAATTACAACCACCCGCTCGTGTT	TAACACGAGCGGGTGGTTGTAATTC
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	511	TTTAGTTTGGCGTTGGGACTTCACC	TGGTGAAGTCCCAACGCCAAACTAA
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	513	TCCGAAACCGTTAACGTGGCGCACA	TTGTGCGCCACGTTAACGGTTTCGG
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	515	TTAATGATTTTAGTCGCGGGGTGGG	TCCCACCCGCGACTAAAATCATTA
	516	TGGCTACTCTAAGTGCCCGCTCAGG	TCCTGAGCGGGCACTTAGAGTAGCC
	517	TTGGCGGACGACTCAATATCTCACG	TCGTGAGATATTGAGTCGTCCGCCA
	518	TGGGCGTTAGGCGTAATAGACCGTC	TGACGGTCTATTACGCCTAACGCCC
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	522	TGTGTCGGCGCTATTTGGCCTTACC	TGGTAAGGCCAAATAGCGCCGACAC
	523	TCCAGGGAAGCAACTGGTTGCCATT	TAATGGCAACCAGTTGCTTCCCTGG
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	525	TGCAAACCCGGTAACCCGAGAGTTC	TGAACTCTCGGGTTACCGGGTTTGC
	526	TGCAAATGGCGTCATGCACGAACGT	TACGTTCGTGCATGACGCCATTTGC
	527	TAGTACTTTCGCGCCCAGTTTAGGG	TCCCTAAACTGGGCGCGAAAGTACT
	528	TAAGATCTGCGAGGCATCCCGGCTT	TAAGCCGGGATGCCTCGCAGATCTT
25 .	529	TGCAAGTGTATCGCACAGTGCGATT	TAATCGCACTGTGCGATACACTTGC
	530	TCCGACAAGGCCTCAATTCATTCTG	TCAGAATGAATTGAGGCCTTGTCGG
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	532	TATCCAGAGATCCGTTTTGCAGCGT	TACGCTGCAAAACGGATCTCTGGAT
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30	534	TTTCCGTCAGGCGGATCAACGGAAT	TATTCCGTTGATCCGCCTGACGGAA
	535	TATGCCGGACACGCATTACACAGGC	TGCCTGTGTAATGCGTGTCCGGCAT
	536	TTGGGCCGCTTGGCGCTTTCATAGA	TTCTATGAAAGCGCCAAGCGGCCCA
	537	TCCTAGCGCGAGCTTTACTGACCAG	TCTGGTCAGTAAAGCTCGCGCTAGG
	538	TTTGGCCAGGAATATGGTCTCGAGA	TTCTCGAGACCATATTCCTGGCCAA
35	539	TGTCTGCGGCCGACTTGCTATGCAT	TATGCATAGCAAGTCGGCCGCAGAC
	540	TAACTTGCTCATTCTCAAGCCGACG	TCGTCGGCTTGAGAATGAGCAAGTT
	541	TACGTCAGCGATTGTGGCGAAATAT	TATATTTCGCCACAATCGCTGACGT
•	542	TACGGCCTGCGTCAGCACATGCATC	TGATGCATGTGCTGACGCAGGCCGT
	543	TATACCTCCGCAGAACCATTCCGTT	TAACGGAATGGTTCTGCGGAGGTAT
40	544	TAGTTCGCGGTCCCACGATTCACTT	TAAGTGAATCGTGGGACCGCGAACT
	545	TTGCTCAATTTGTGCAGAAAACGCC	TGGCGTTTTCTGCACAAATTGAGCA

	546	TTTATCGCGAGAGACGACCGTGTCC	TGGACACGGTCGTCTCTCGCGATAA
	547	TGACGCGACGTGAGTAGTGGAAGCG	TCGCTTCCACTACTCACGTCGCGTC
	548	TATGGTAGGGCATTGGGCTTTCCT	TAGGAAAGCCCAATGCCCCTACCAT
	549	TCCAAATATAGCCGCGCGGAGACAT	TATGTCTCCGCGCGGCTATATTTGG
5	550	TGCAAACCCTGATTGAATCGTGCCC	TGGGCACGATTCAATCAGGGTTTGC
	551	TTAGCGTCTTGCGTGAAACCATGGG	TCCCATGGTTTCACGCAAGACGCTA
	552	TCCACCCGACAGCGCTGGACTCTT	TAAGAGTCCAGCGCTGTCGGGGTGG
	553	TACGAGCACTGAAGGCTGCTTTACG	TCGTAAAGCAGCCTTCAGTGCTCGT
	554	TCATATCAGCGTCGTCTAGCTCGCG	TCGCGAGCTAGACGACGCTGATATG
10	555	TTGATCCCGGACCGGCTAGACTAAT	TATTAGTCTAGCCGGTCCGGGATCA
	556	TGGCCCGACACTACAGGGTAATCA	TTGATTACCCTGTAGTGTCGGGGCC
	557	TGGCTCCAGGGCGAGATTATGAATG	TCATTCATAATCTCGCCCTGGAGCC
	558	TCAAAATCCGATGGGCGGAAAATTA	TTAATTTTCCGCCCATCGGATTTTG
	559	TCACAGGCGCATAGGGAGCAAGCTA	TTAGCTTGCTCCCTATGCGCCTGTG
15	560	TTAGCTATTGCCCCGATGGGCTACT	TAGTAGCCCATCGGGGCAATAGCTA
	561	TTGGTACGCGGTCCATAGCAAGTCG	TCGACTTGCTATGGACCGCGTACCA
	562	TGACGCTGTGGCTCGGAAACTGTTC	TGAACAGTTTCCGAGCCACAGCGTC
	563	TCCTGGGTTCGCCGCGTGGTAACTG	TCAGTTACCACGCGGCGAACCCAGG
	564	TTTCCCGCGTAGCCCAACAGCTATA	TTATAGCTGTTGGGCTACGCGGAA
20	565	TTTCGCGGATTGCTGCCGCATAACA	TTGTTATGCGGCAGCAATCCGCGAA
	566	TAAAAATGGCACCGAAGTTGAGGCA	TTGCCTCAACTTCGGTGCCATTTTT
	567	TCATTCCGCGCGAGTTGAAATCCAG	TCTGGATTTCAACTCGCGCGGAATG
	568	TACGCACGTTTTTTGGCACGGTTAA	TTTAACCGTGCCAAAAAACGTGCGT
	569	TTGTCCATGACGTCGTTTCTCTGGT	TACCAGAGAAACGACGTCATGGACA
25	570	TTCTCAGTCGGACTCGTATGCCAGA	TTCTGGCATACGAGTCCGACTGAGA
	571	TCTCCAAACGCACACATCAAGCATC	TGATGCTTGATGTGTGCGTTTGGAG
	572	TTTCAACCAAGCGGGGTGTTCGTGA	TTCACGAACACCCCGCTTGGTTGAA
	573	TGGTGTCGGAGGGTGGTGACCTCGA	TTCGAGGTCACCACCCTCCGACACC
	574	TAGCGCTTTTGGTCATGATTTGCAA	TTTGCAAATCATGACCAAAAGCGCT
30	575	TCCGAGGACTTACGTCTGCCCAGGA	TTCCTGGGCAGACGTAAGTCCTCGG
	576	TGCCCAATCCAGTTCTTATGCGCCC	TGGGCGCATAAGAACTGGATTGGGC
	577	TCGGGTTAACCCACGCAAGTTATGA	TTCATAACTTGCGTGGGTTAACCCG
	578	TTGATTAGCGCTCAATACACGCGTG	TCACGCGTGTATTGAGCGCTAATCA
	579	TAAGGCAGACCTTTGGTTCGACTG	TCAGTCGAACCAAAGGTCTGCCCTT
35	580	TGCGCCACAAGATTCACATGTCATT	TAATGACATGTGAATCTTGTGGCGC
	581	TGCCATGTTCAAGGGCCTTTCGAAG	TCTTCGAAAGGCCCTTGAACATGGC
	582	TCGCGGTGTTTTGTCTAGGTGCCGG	TCCGGCACCTAGACAAAACACCGCG
	583	TCAACATTGTGGTGGCACTCCATCC	TGGATGGAGTGCCACCACAATGTTG
•	584	TCGATACGCGCCGGTTTGTTAAATC	TGATTTAACAAACCGGCGCGTATCG
40	585	TGGCTATAAACGTGCGGACTGCTCC	TGGAGCAGTCCGCACGTTTATAGCC
		TTGGGTAAATCACTATTGCGCGGTT	TAACCGCGCAATAGTGATTTACCCA

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	587	TGTCTTCATCGGCCCGCGCAAGCTA	TTAGCTTGCGCGGGCCGATGAAGAC
	588	TGCGACACCCTGTACTCTGATGC	TGCATCAGAGTACAGGGTGTGTCGC
	589	TGTAGCAGGGTCCGCAAGACCAAGC	TGCTTGGTCTTGCGGACCCTGCTAC
	590	TTCGCCAACGCAGGGTAACTGCCAT	TATGGCAGTTACCCTGCGTTGGCGA
5	591	TACTCCGAAGCTTCGAGCGGCACGA	TTCGTGCCGCTCGAAGCTTCGGAGT
	12	TCATCGTCCCTTTCGATGGGATCAA	TTTGATCCCATCGAAAGGGACGATG
	13	TGCACGGGAGCTGACGACGTGTCAA	TTTGACACGTCGTCAGCTCCCGTGC
	594	TATCATCCCACGGCAGAGTGAAGAG	TCTCTTCACTCTGCCGTGGGATGAT
	595	TCGCTGGACTGGCCTATCCGAGTCG	TCGACTCGGATAGGCCAGTCCAGCG
10	596	TCGGTCTCAGCAACACTGTCGCAAA	TTTTGCGACAGTGTTGCTGAGACCG
	597	TCGAACGTTCTCCGATGTAATGGCC	TGGCCATTACATCGGAGAACGTTCG
	598	TATACCGTGCGACAAGCCCCTCTGA	TTCAGAGGGGCTTGTCGCACGGTAT
	599	TAGCTCATTCCCGAGACGGAACACC	TGGTGTTCCGTCTCGGGAATGAGCT
	600	TTTTCATGCGGCCGTTGCAAATCAT	TATGATTTGCAACGGCCGCATGAAA
15	601	TACTCGAACGGACGTTCAATTCCCA	TTGGGAATTGAACGTCCGTTCGAGT
	602	TCTGCATGGTGTGGGTGAGACTCCC	TGGGAGTCTCACCCACACCATGCAG
	603	TCCGCGAGTGTGGATGGCGTGTTGA	TTCAACACGCCATCCACACTCGCGG
	604	TAATGTGTCGGTCCTAAGCCGGGTG	TCACCCGGCTTAGGACCGACACATT
	605	TTAAGACGAGCCTGCACAGCTTGCG	TCGCAAGCTGTGCAGGCTCGTCTTA
20	606	TGGCGTGGGAGGATAAGACGATGTC	TGACATCGTCTTATCCTCCCACGCC
	607	TTGCTCCATGTTAGGAACGCACCAC	TGTGGTGCGTTCCTAACATGGAGCA
	608	TCGGTGTTGGTCGGACTGACGACTG	TCAGTCGTCAGTCCGACCAACACCG
	609	TCCGCGCGTATCTATCAGATCTGGG	TCCCAGATCTGATAGATACGCGCGG
	610	TAAAGCATGCTCCACCTGGAGCGAG	TCTCGCTCCAGGTGGAGCATGCTTT
25	611	TACTTGCATCGCTGGGTAGATCCGG	TCCGGATCTACCCAGCGATGCAAGT
	612	TTGCTTACGCAGTGGATTGGTCAGA	TTCTGACCAATCCACTGCGTAAGCA
	613	TATGCAGATGAACAAATCGCCGAAT	TATTCGGCGATTTGTTCATCTGCAT
	614	TGCAATTCTGGGCCATGTATTCGTC	TGACGAATACATGGCCCAGAATTGC
	615	TAGGGTTCCTTACGCGTCGACATGG	TCCATGTCGACGCGTAAGGAACCCT
30	616	TGTGGAGCTAATCGCGAGCCTCAGA	TTCTGAGGCTCGCGATTAGCTCCAC
	617	TTCGTAGTCTCACCGGCAATGATCC	TGGATCATTGCCGGTGAGACTACGA
	618	TTTATAGCAGTGCGCCAATGCTTCG	TCGAAGCATTGGCGCACTGCTATAA
	619	TCGAACAGTGCTGTCCGTCGCTCAA	TTTGAGCGACGGACAGCACTGTTCG
	620	TTCCGCGTGGACTGTTAGACGCTAT	TATAGCGTCTAACAGTCCACGCGGA
35	621	TCATTAGCCCGCTGTCGGTAACTGT	TACAGTTACCGACAGCGGGCTAATG
	622	TGGAAAGAAACTCAGACGCGCAATG	TCATTGCGCGTCTGAGTTTCTTTCC
•	623	TCGACTCGCTGGACAGGAGAATCGT	TACGATTCTCCTGTCCAGCGAGTCG
	624	TCATGATCCTCTGTTTCACCCGCGG	TCCGCGGGTGAAACAGAGGATCATG
	625	TGGCGTAGCGCTCTAAAAGCTTCGG	TCCGAAGCTTTTAGAGCGCTACGCC
40	626	TAGTGATGCCATCAGGCCCGTATAC	TGTATACGGGCCTGATGGCATCACT
	627	TTATGGAAAGGGCAACAGCGCTATC	TGATAGCGCTGTTGCCCTTTCCATA

ſ	628	TCTGTGGTTGATGGAGGATCCACAC	TGTGTGGATCCTCCATCAACCACAG
}	629		TGTGTCAGCGCAAATTCCAGCGAGT
Ì	630		TCTGTAACCGCGTGGTTCGGGCCTG
Ì	631	TGGCGCAATGGGCGCATAAATACTA	TTAGTATTTATGCGCCCATTGCGCC
5	632	TGGTCAATTCGCGCTACATGCCCTA	TTAGGGCATGTAGCGCGAATTGACC
	633	TGATGGTGGACTGGAGCCCTTCCGC	TGCGGAAGGGCTCCAGTCCACCATC
ļ	634	TCCGCGCATAGCGCAATAGGGGAGA	TTCTCCCCTATTGCGCTATGCGCGG
į	635	TTCTTCTGGCTGTCCGGCACCCGAA	TTTCGGGTGCCGGACAGCCAGAAGA
	636	TGCGTTCGCAATTCACGGGCCCTTA	TTAAGGCCCGTGAATTGCGAACGC
10	637-	TTCGTTTCGGCCTTGGAGAGTATCG	TCGATACTCTCCAAGGCCGAAACGA
	638	TAGGTGCAAGTGCAAGGCGAGAGGC	TGCCTCTCGCCTTGCACTTGCACCT
	639	TCGCCAGTTTCGATGGCTGACGTTT	TAAACGTCAGCCATCGAAACTGGCG
	640	TGCTTTACCGCCGATCCCAGATATC	TGATATCTGGGATCGGCGGTAAAGC
	641	TGTGCTTGACGAAGAGGCGAAATGT	TACATTTCGCCTCTTCGTCAAGCAC
15	642	TCAGTCCGTGCGCTTCATGTCCTCA	TTGAGGACATGAAGCGCACGGACTG
	643	TTACGCGTAAGAGCCTACCCTCGCG	TCGCGAGGGTAGGCTCTTACGCGTA
	644	TGGCGAGTCTTGTGGGGACATGTGT	TACACATGTCCCCACAAGACTCGCC
	645	TCCAAAGCGAAGCGAGCGTGTCTAT	TATAGACACGCTCGCTTCGCTTTGG
	646	TGCCGTAGGTTGCTCTTCACCGAAC	TGTTCGGTGAAGAGCAACCTACGGC
20	647	TAAATCCGCGATGTGCCGTGAGGCT	TAGCCTCACGGCACATCGCGGATTT
	648	TGGCTTCGCACCCGTACCAATTTAG	TCTAAATTGGTACGGGTGCGAAGCC
	649	TTGTAGAGTCCCACGTAGCCGGCAT	TATGCCGGCTACGTGGGACTCTACA
	650	TCACTAGTCTGGGGCAAGGTGCATT	TAATGCACCTTGCCCCAGACTAGTG
	651	TTGTACTCGGCAGGCGCAATAGATT	TAATCTATTGCGCCTGCCGAGTACA
25	652	TAACGGGTATCGGAAGCGTAAAAGC	TGCTTTTACGCTTCCGATACCCGTT
	653	TCGGACTGCCCGTTTGCAAGTTGAG	TCTCAACTTGCAAACGGGCAGTCCG
	654	TATCGTTCAGCACTGGAGCCCGTAA	TTTACGGGCTCCAGTGCTGAACGAT
	655	TATGCATCGAACTAGTCGTGACGGC	TGCCGTCACGACTAGTTCGATGCAT
	656	TTTCCAGGCATTAAGGAGAGGGAGC	TGCTCCCTCCTTAATGCCTGGAA
30	657	TGTGCGACATCTACTCCACGATCCC	TGGGATCGTGGAGTAGATGTCGCAC
	658	TCTCATCGTCCTAACACGAGAGCCC	TGGGCTCTCGTGTTAGGACGATGAG
	659	TAATGGCACTTCGGCGGTGATGCAA	TTTGCATCACCGCCGAAGTGCCATT
	660	TCCGTGGGAGGGAATCCAACCGAGG	TCCTCGGTTGGATTCCCTCCCACGG
	661	TAAATTCTCGTTGGTGACGGCTCAT	TATGAGCCGTCACCAACGAGAATTT
35	662	TTTGCTCTTATCCTTGTCCTGGGCG	TCGCCCAGGACAAGGATAAGAGCAA
	. 663	TTTAAGGATCAGGCGGAGCTTGCAG	TCTGCAAGCTCCGCCTGATCCTTAA
	664	TCGCGACTAAGGTGCTGCAACTCGA	TTCGAGTTGCAGCACCTTAGTCGCG
	<b>6</b> 65	TGCTCGATTTCACGGCCCGTTGTTC	TGAACAACGGGCCGTGAAATCGAGC
	666	TAGCAGAGTGCGTTGCAGAGGCTAA	TTTAGCCTCTGCAACGCACTCTGCT
40	667	TTGGAGGTGAGGACGACGTGCACTA	TTAGTGCACGTCGTCCTCACCTCCA
	668	TAACCGTTTAGGGTACATTCGCGGT	TACCGCGAATGTACCCTAAACGGTT

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	669	TTATGATCGCTCGGCTCACAGTTTG	TCAAACTGTGAGCCGAGCGATCATA
	670	TGACTTTTTGCGGAAACGTCATGGT	TACCATGACGTTTCCGCAAAAAGTC
	671	TTGTCGGTTATTCCACCTGCAAGGA	TTCCTTGCAGGTGGAATAACCGACA
	672	TCTATGGTTTGCACTGCGCCGTCGA	TTCGACGGCGCAGTGCAAACCATAG
5	673	TAGCAGGGAAATTCAATCGTTCGCA	TTGCGAACGATTGAATTTCCCTGCT
	674	TCCTAACCGAGCGCTTAGCATTTCC	TGGAAATGCTAAGCGCTCGGTTAGG
İ	675	TCCCGACCCTAACTCGCATTGAATA	TTATTCAATGCGAGTTAGGGTCGGG
	676	TTTGCTTAATGGTGACGCCACGGAT	TATCCGTGGCGTCACCATTAAGCAA
	677	TGATGCTCGCCGTGTTTAGTTCACG	TCGTGAACTAAACACGGCGAGCATC
10	678	TTCGGATGACGAGTTTCCATGACGG	TCCGTCATGGAAACTCGTCATCCGA
	679	TATGCGGTCTACTTTCTCGATCGGG	TCCCGATCGAGAAGTAGACCGCAT
	680	TTTGCGAGGCTAAGCACACGGTAAA	TTTTACCGTGTGCTTAGCCTCGCAA
	681	TAACTTAATTACCGCCTCTGGCGCC	TGGCGCCAGAGGCGGTAATTAAGTT
	682	TGTGACCGCGAACTTGTTCCGACAG	TCTGTCGGAACAAGTTCGCGGTCAC
15	683	TTGCGGATTACCGATTCGCTCTTAA	TTTAAGAGCGAATCGGTAATCCGCA
	684	TTGATAGGGGGCCACGTTGATCAGA	TTCTGATCAACGTGGCCCCCTATCA
ļ	685	TTCGCTCCGTAGCGATTCATCGTAG	TCTACGATGAATCGCTACGGAGCGA
	686	TTGTCAGCTGGTAGCCTCCGTTTGA	TTCAAACGGAGGCTACCAGCTGACA
	687	TAGCGTCGCATGACGCTTACGGCAC	TGTGCCGTAAGCGTCATGCGACGCT
20	14	TAGACGCACCGCAACAGGCTGTCAA	TTTGACAGCCTGTTGCGGTGCGTCT
	1:	TCGTGTAGGGGTCCCGTGCTGTCAA	TTTGACAGCACGGGACCCCTACACG
	690	TGTCGCATTCTGCACTGGCTTCGCC	TGGCGAAGCCAGTGCAGAATGCGAC
	691	TTGATTAGGTGCGGTCCCGTAGTCC	TGGACTACGGGACCGCACCTAATCA
	692	TAAGGGACCTTGGGTGACGGCGAGA	TTCTCGCCGTCACCCAAGGTCCCTT
25	693	TTCAAATGGCCACCGCGTGTCATTC	TGAATGACACGCGGTGGCCATTTGA
	694	TCTCCGACGACCAATAAATAGCCGC	TGCGGCTATTTATTGGTCGTCGGAG
	695	TGGCTATTCCCGTAGAGAGCGTCCA	TTGGACGCTCTCTACGGGAATAGCC
	696	TTGGATAACCTCTCGGTCCATCCAC	TGTGGATGGACCGAGAGGTTATCCA
	697	TGACCGCTGTACGGGAGTGTGCCTT	TAAGGCACACTCCCGTACAGCGGTC
30	698	TGCCACAGAGTTTTAGCAGGGACCC	TGGGTCCCTGCTAAAACTCTGTGGC
	699	TCCCACGCTTTCCGACCACTGACCT	TAGGTCAGTGGTCGGAAAGCGTGGG
	700	TCATTGACACAATGCGGGGACTGAT	TATCAGTCCCCGCATTGTGTCAATG
	701	TAGCCACTCGACAGGGTTCCAAAGC	TGCTTTGGAACCCTGTCGAGTGGCT
	702	TCAGGATGAGCAAAGCGACTCTCCA	TTGGAGAGTCGCTTTGCTCATCCTG
35	703	TCAAGGTATGGTCTGGGGCCTAAGC	TGCTTAGGCCCCAGACCATACCTTG
	704	TGGTGTTCGGCCTAAACTCTTTCGG	TCCGAAAGAGTTTAGGCCGAACACC
	705	TTTTAGTCGGACCCTGTGGCAATTC	TGAATTGCCACAGGGTCCGACTAAA
	706	TCACACGTTTCCGACCAGCCTGAAC	TGTTCAGGCTGGTCGGAAACGTGTG
	707	TCTGGACGAACTGGCTTCCTCGTAC	TGTACGAGGAAGCCAGTTCGTCCAG
40	708	TTTCACAATCCGCCGAAAACTGACC	TGGTCAGTTTTCGGCGGATTGTGAA
	709	TAACAGGATATCCGCGATCACGACA	TTGTCGTGATCGCGGATATCCTGTT

	710	TTACGTCGGATCCATTGCGCCGAGT	TACTCGGCGCAATGGATCCGACGTA
	711	TCATGGATCTCTCGGTTTGATCGCC	TGGCGATCAAACCGAGAGATCCATG
	712	TAGCCAGGCGCGTATATACGCTCGG	TCCGAGCGTATATACGCGCCTGGCT
	713	TATTTGGCACGTGTCGTGCCATGTT	TAACATGGCACGACACGTGCCAAAT
5	714	TCCGCGTTGCACCACTTTGAGGTGC	TGCACCTCAAAGTGGTGCAACGCGG
	715	TTTGGACGTGACAAGCATGGCGCTC	TGAGCGCCATGCTTGTCACGTCCAA
	716	TCTGAATCGCGCAAGTAAATGGGGG	TCCCCATTTACTTGCGCGATTCAG
	717	TGATAAGGTCCACCAGATTGCGCGC	TGCGCGCAATCTGGTGGACCTTATC
	718	TCTAACAATTGCCAACCGGGACGGC	TGCCGTCCCGGTTGGCAATTGTTAG
10	719	TGGTAACCTGGGTGCTTGCAGGTTA	TTAACCTGCAAGCACCCAGGTTACC
	720	TATCGGAGCCACCATTCGCATTGGG	TCCCAATGCGAATGGTGGCTCCGAT
	721	TGTGAACTGGCTTGCCCCAGGATTA	TTAATCCTGGGGCAAGCCAGTTCAC
	722	TAGGCGATAGCATGGTCCCATATGA	TTCATATGGGACCATGCTATCGCCT
	723	TAACGGTATCGTGGCTAATGCACGA	TTCGTGCATTAGCCACGATACCGTT
15	724	TAGTAGTGGTCCTCCAGATCGGCAA	TTTGCCGATCTGGAGGACCACTACT
	725	TCCGTTGAATTGGACGGGAGGTTAG	TCTAACCTCCCGTCCAATTCAACGG
	726	TGCATAAGTGCGGCATCGCGAAGGG	TCCCTTCGCGATGCCGCACTTATGC
	727	TCGACAAGATGCAGCTGCTACATGC	TGCATGTAGCAGCTGCATCTTGTCG
	728	TTCGCAGTGATTCCCGACCGATAAG	TCTTATCGGTCGGGAATCACTGCGA
20	729	TCAAGGCGAGTCCACTCGAGGGGAC	TGTCCCCTCGAGTGGACTCGCCTTG
	730	TGCAACTTGCACGGCATAAGTGGCC	TGGCCACTTATGCCGTGCAAGTTGC
	731	TTCCGAGCTTGACGTTCGCGACGTC	TGACGTCGCGAACGTCAAGCTCGGA
	732	TAGCGCTGGGCTGTGCCATCTC	TGAGATGGCAGCACAGCCCAGCGCT
	733	TTTCATGTCGCTGAGTAACCCTCGC	TGCGAGGGTTACTCAGCGACATGAA
25	734	TCGAACCGCTAATGCCCATTGTCAG	TCTGACAATGGGCATTAGCGGTTCG
	735	TCACGGAAGGTGGGACAAATCGCCG	TCGGCGATTTGTCCCACCTTCCGTG
	736	TCACAGATGGAGACAAACGCGCCTT	TAAGGCGCGTTTGTCTCCATCTGTG
	737	TTTTCGCAACTCGCTCCATAACCC	TGGGTTATGGAGCGAGTTGCGAAAA
	738	TACGTTACGTTTCCGGCGCCTCTAA	TTTAGAGGCGCCGGAAACGTAACGT
30	. 739	TTATCGGATTGCGTGGGTTTCAATC	TGATTGAAACCCACGCAATCCGATA
	740	TCTTCCACAATTGTCTGCGACGCAC	TGTGCGTCGCAGACAATTGTGGAAG
	741	TTGCACAAAGGTATGGCTGTCCGGC	TGCCGGACAGCCATACCTTTGTGCA
	742	TTCCGATGCCAGTCCCATCTTAAGA	TTCTTAAGATGGGACTGGCATCGGA
	743	TCTGAAACCGTGCGAATCGAGGTGA	TTCACCTCGATTCGCACGGTTTCAG
35	744	TCGGTGTTCCGCGTGTCGAAAAAAT	TATTTTTCGACACGCGGAACACCG
	745	TTCTAGCAGGCCTTTTGAATCGCCA	TTGGCGATTCAAAAGGCCTGCTAGA
	746	TGAGTCACCTCTGAGACGGACGCCA	TTGGCGTCCGTCTCAGAGGTGACTC
	747	TTCTTCTGTCATCCTGCAGCAGCAT	TATGCTGCTGCAGGATGACAGAAGA
	748	TGCGGATGAAACCTGAAAGGGGCCT	TAGGCCCCTTTCAGGTTTCATCCGC
40	749	TGGGGCCCCAAACTGGTATCAAGCC	TGGCTTGATACCAGTTTGGGGCCCC
	750	TGCATTGGCTTCGGATTCTCCTACA	TTGTAGGAGAATCCGAAGCCAATGC

	751	TAGGCGGCCCAACTGTGAGGTCTTG	TCAAGACCTCACAGTTGGGCCGCCT
	752	TACACCATGTGCTCCGCGCTGCAGT	TACTGCAGCGCGGAGCACATGGTGT
[	753	TACGATGAACATGAATCGGGAGTCG	TCGACTCCCGATTCATGTTCATCGT
	754	TCTGCATCCCTGTAGCAGCGCTCCG	TCGGAGCGCTGCTACAGGGATGCAG
5	755	TGTGCCGTATTTCGACCTGTGCGTT	TAACGCACAGGTCGAAATACGGCAC
Ī	756	TGCAGTGCGCACTTCAGTTCAAAAG	TCTTTTGAACTGAAGTĞCGCACTGC
Ī	757	TGCGATTTTAAGCGATGCCTTGACG	TCGTCAAGGCATCGCTTAAAATCGC
	758	TTAGGTGACCTAGGCTTGCTTGCGG	TCCGCAAGCAAGCCTAGGTCACCTA
•	759	TCTGGATACCTTGCCTGTGCGGCGC	TGCGCCGCACAGGCAAGGTATCCAG
10	760	TCCCCTTACGGCTCGTCGTCTATGC	TGCATAGACGACGAGCCGTAAGGGG
ļ	761	TGCGCTTGCCCGATGCGATGCATTA	TTAATGCATCGCATCGGGCAAGCGC
	762	TTTTCTGTAAGCGGCCTGGGGTTCA	TTGAACCCCAGGCCGCTTACAGAAA
	763	TGGCTGAGGTGAGCGGTAAGGATGA	TTCATCCTTACCGCTCACCTCAGCC
l	764	TTCTTGGCCTCCCCGATCTAATTTG	TCAAATTAGATCGGGGAGGCCAAGA
15	765	TGGAGGTAACGCCGTGTACGTAGGA	TTCCTACGTACACGGCGTTACCTCC
	766	TGTAATCCATTTGTGGCTGCGTCAA	TTTGACGCAGCCACAAATGGATTAC
	767	TCAAACCCATTCCAGCAGACGCCTG	TCAGGCGTCTGCTGGAATGGGTTTG
	768	TTAGGAGGAATTTGGCATGCGGGCG	TCGCCCGCATGCCAAATTCCTCCTA
	769	TATAGGTAGGATGTGCCCGGCGTTG	TCAACGCCGGGCACATCCTACCTAT
20	770	TGCAAGTGCTTAGCTCGTCAGCCTC	TGAGGCTGACGAGCTAAGCACTTGC
	771	TCTGGCTGTGTCGCATCTCGTTAAC	TGTTAACGAGATGCGACACAGCCAG
	772	TCTAACGTCGTCTCGCGCAATCACT	TAGTGATTGCGCGAGACGACGTTAG
	773	TTTTCATAAACGTTGTCCCCGAGC	TGCTCGGGGACAACGTTTATGAAAA
	774	TAGCAGGAGGACGAACCTCCGCTCC	TGGAGCGGAGGTTCGTCCTCCTGCT
25	775	TTTCAAGCACCATCGTGCAATCCAA	TTTGGATTGCACGATGGTGCTTGAA
	776	TAGCGTCGCCAGTGATCGCTAGTGG	TCCACTAGCGATCACTGGCGACGCT
	777	TTACATTCCCTGCCTCCGTGGGCTT	TAAGCCCACGGAGGCAGGGAATGTA
	778	TCGCTTCGCGTATTCAGTAGCGGTT	TAACCGCTACTGAATACGCGAAGCG
	779	TTCGGACGCGTCGACACTCATTATA	TTATAATGAGTGTCGACGCGTCCGA
30	780	TTCTGAGCAGGCCAGCGCTCCAGCT	TAGCTGGAGCGCTGCTCAGA
	781	TTTGAATTGCCAAGCCCTGAAAGCC	TGGCTTTCAGGGCTTGGCAATTCAA
	782	TAGTTTTCGCCTTGATGCGTCGGTG	TCACCGACGCATCAAGGCGAAAACT
;	783	TGTTTCATAGGCCACGCGTGCTAAA	TTTTAGCACGCGTGGCCTATGAAAC
	16	TCATCGCTGCAAGTACCGCACTCAA	TTTGAGTGCGGTACTTGCAGCGATG

#### **CLAIMS**

We claim:

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- An oligonucleotide array comprising an array of at least 25 different addresses, each address
  comprising a different capture probe selected from the group consisting of the sequences set forth
  in Table 1, Table 2, Table 3 and Table 4.
- 10 2. An array according to claim 1, wherein said capture probes are microspheres.
  - 3. An array according to claim 1 or 2 wherein said array is a liquid array.
  - 4. An array according to claim 1, 2 or 3, wherein said array further comprises a solid support.

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- 5. An array according to claim 1, 2, 3 or 4, wherein said addresses are microspheres and wherein said solid support comprises wells into which said microspheres are individually distributed.
- 6. An array according to claim 1, 2, 3 or 4, wherein each address is a different known location, and said wherein each capture probe is attached to one of said known locations.
  - 7. An array according to claim 1, 2, 3, 4, 5 or 6, wherein said array comprises at least 50 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4.

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8. An array according to claim 1,2, 3, 4, 5 or 6 wherein said array comprises at least 100 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4.

- A kit comprising at least twenty-five nucleic acids selected from the group consisting of sequences substantially complementary to the sequences set forth in Table II, Table III and Table IV or their complement.
- 10. A kit according to claim 9, wherein said kit comprises at least 50 nucleic acids selected from the
   35 group consisting of the sequences substantially complementary to the sequences set forth in
   Table I, Table II, Table III and Table IV or their complement.

11. A kit according to claim 9 or 10, wherein said kit comprises at least 100 nucleic acids selected from the group consisting of the sequences substantially complementary to the sequences set forth in Table I, Table III and Table IV or their complement.

- 5 12. A kit according to claim 9, 10 or 11, wherein said nucleic acids further comprise at least a first universal priming sequence.
  - 13. A kit according to claim 9, 10, 11 or 12, wherein said nucleic acid sequence further comprises a sequence substantially complementary to a target domain.

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- 14. A method of immobilizing a target nucleic acid sequence, said method comprising:
  - a) attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein said first adapter nucleic acid comprises a sequence substantially complementary to a sequence selected from the sequences set forth in Table I, Table II, Table III, and Table IV;
  - b) contacting said modified first target nucleic acid sequence with an array comprising an array of at least 25 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4, whereby said target nucleic acid sequence is immobilized.

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- 15. A method of detecting a target nucleic acid sequence, said method comprising:
  - a) attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein said first adapter nucleic acid comprises a sequence substantially complementary to a sequence selected from the sequences set forth in Table I, Table III, and Table IV;

b) contacting said modified first target nucleic acid sequence with an array comprising: an array of at least 25 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4: and

- c) detecting the presence of said modified first target nucleic acid sequence.
- 16. A method of detecting a target nucleic acid, said method comprising:

a) hybridizing a first adapter probe with a first target nucleic acid, said first adapter probe comprising a first domain that is complementary to said first target nucleic acid and a second domain, said second domain comprising a first sequence substantially complementary to a selected from the group consisting of the sequences set forth in Table I, Table II, Table III and Table IV to form a first hybridization complex;

b) contacting said first hybridization complex with an enzyme such that when said first domain
of said adapter probe is perfectly complementary with said first target nucleic acid, said
first adapter probe is altered resulting in a modified first adapter probe;

- c) contacting said modified first adapter probe with a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that said first capture probe and said modified first adapter probe form a second hybridization complex; and
- d) detecting the presence of said modified first adapter probe as an indication of the presence of said target nucleic acid.

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## Description of algorithm to select "best" oligonucleotide adapter s quences.

Requirements for good sequences:

- Generates adequate hybridization signal intensity when employed in an experiment.
- Exhibits minimal cross-reactivity with other adapter sequences.
- Unique within the human genome sequence. This requirement can be extended to the genomic sequence of other organisms such as the fruit fly, the mouse, etc.

One method of generating sequences that meet the above requirements is to randomly generate sequences of given lengths and then pass these filters through a set of heuristic acceptance filters. In particular, the 24-mer Illumina Adapter sequences (IllumaCodes) were chosen as follows.

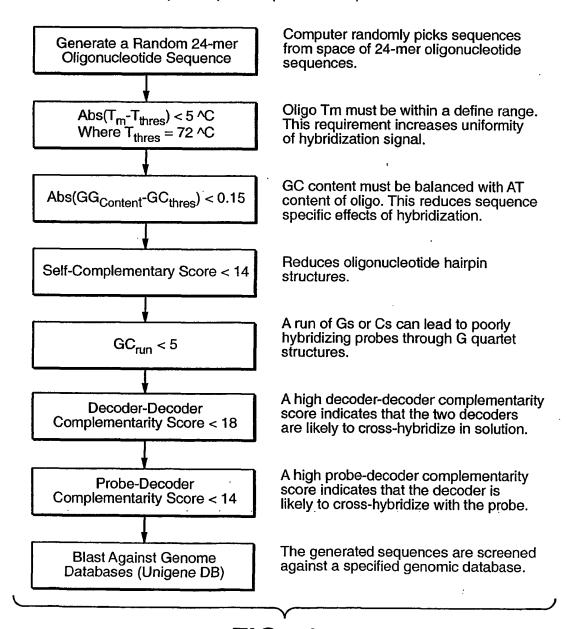


FIG._1

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# Flow diagram for selection of probes sequences

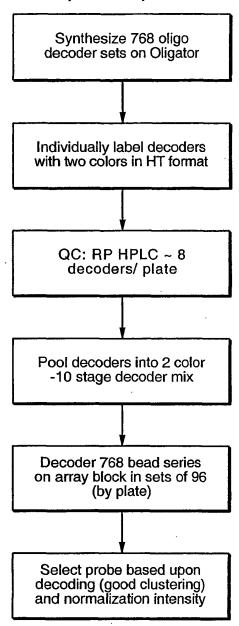


FIG._2

